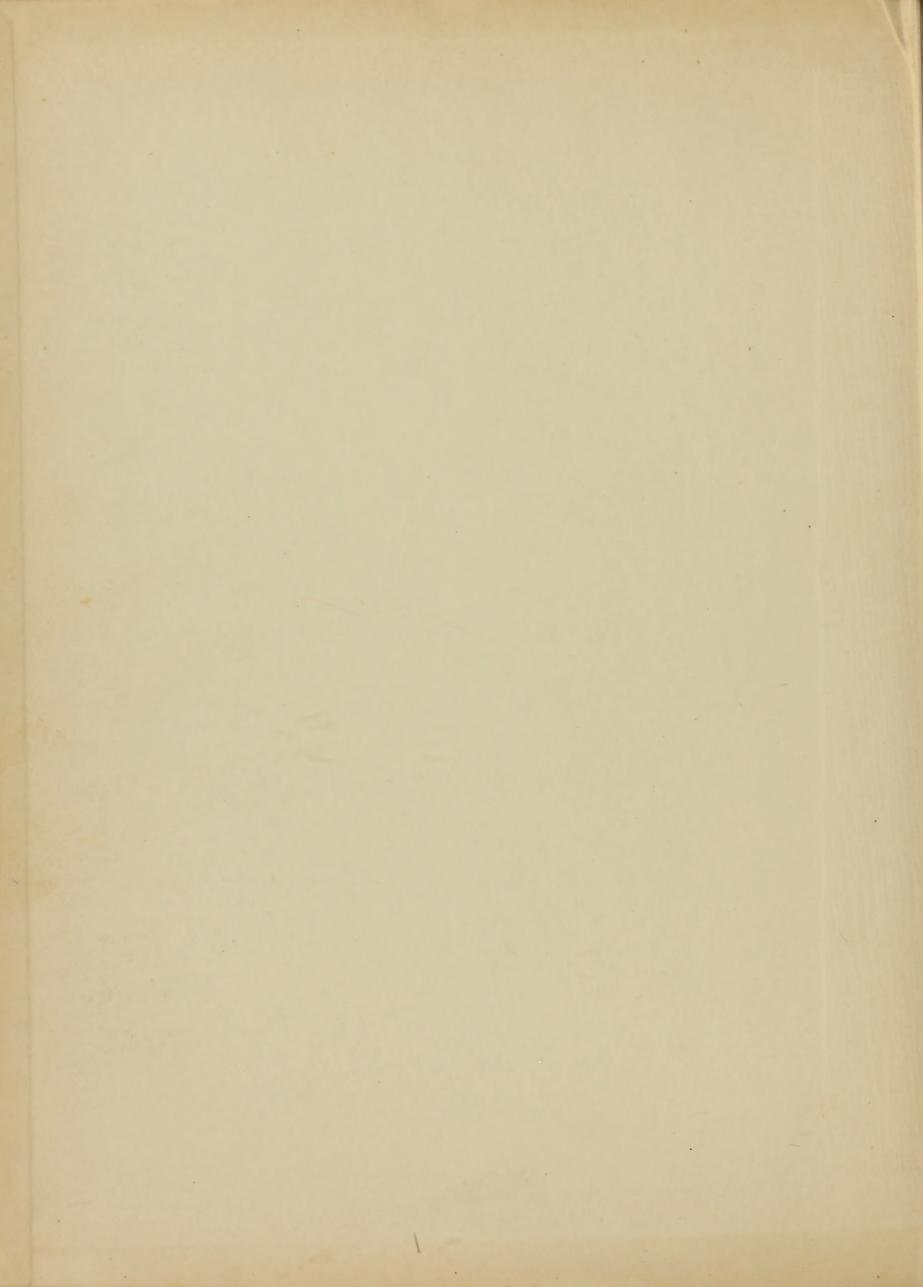
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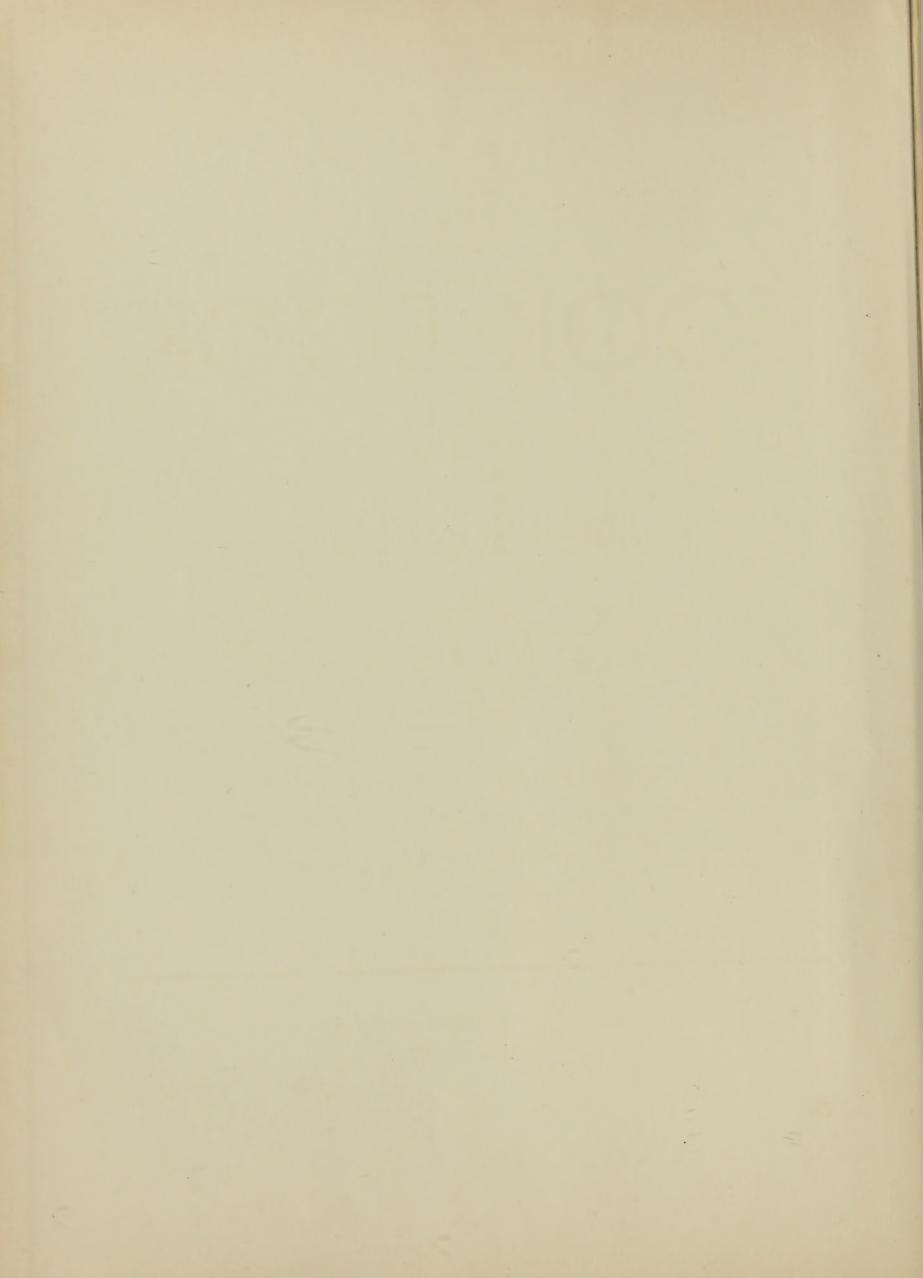
OF THE

United States Navy



St. Helen Stark

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The

COOK BOOK

OF THE

United States Navy



BUREAU OF SUPPLIES AND ACCOUNTS

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FOREWORD

Navy Department,
Bureau of Supplies and Accounts,
Washington, D. C., 1 July 1945.

The Cook Book of the United States Navy contains a summary of the principles of cookery, menu planning, and a comprehensive collection of recipes based on the newer knowledge of nutrition.

Many of the recipes were suggested and tested by commissary personnel of the Navy, and all the recipes have been developed and tested for practical use in the Navy.

Supplementary information which will be helpful to commissary personnel in preparing food of high standard is presented in tabular and other form.

In an attempt to assist with some of the feeding problems of the forces afloat and at advance bases, more recipes for dry provisions have been added in this edition.

W. J. CARTER,

Chief of the Bureau of Supplies and Accounts.

Food Preparation for the Mess

Food purchased by the Navy is high quality food. To maintain this high quality from the time it reaches the Navy stores until it is served to the mess, the food must have careful and intelligent handling in preparation and service.

Storage: Attention must be given to proper storage of the food when it is first received. The turnover of stored food should be carefully supervised so that the stores are moved in the same order as received. This has direct bearing on the condition of the food when issued for preparation.

Perishable foods should be put immediately under refrigeration and kept refrigerated until time for preparation.

Study the Menu and Recipes: The menu and recipes for the week should be carefully studied daily to determine the length of time necessary for preparation and cooking.

Preparation Period: The food should be prepared as near to the actual time for cooking as possible to prevent the loss of valuable vitamins and minerals.

The period of time elapsing between preparation and service to the mess should be as short as possible.

Have the Food Ready Just on Time: The actual cooking period should be completed just a few minutes prior to the serving period, making allowances for time necessary to carve meats or give the finishing touches to the cooked product.

Food that stands after cooking loses much of its fine flavor and nutritive value.

Standing at room temperature, several hours at a time, also exposes the food to spoilage bacteria. Therefore, it is important to serve cooked food hot and immediately after it has been cooked. Approximate cooking time is given in the recipes.

Overcooked Food Becomes Wasted Food: To retain full flavor, best texture, and highest nutritive value, food should never be overcooked. Cook it only to the proper degree of doneness.

Serve Hot Foods Hot and Cold Foods Cold: Hot foods allowed to cool and cold foods served warm are unappetizing and often become wasted food.

Watch Appearance and Consistency: Attention must be given to the appearance of the meal after it is prepared and to the manner of service of the food. This is especially helpful to morale. Make the food look attractive. Combine foods that are contrasting in texture and color. Avoid having foods all the same color and of similar texture in one meal.

Parsley for garnish, when available, or a dash of paprika for color, adds eye appeal and stimulates interest in the food.

Taste Each Dish Before Serving: Extra seasoning may be necessary before serving.

Place Food on Serving Tray Carefully: Food should be carefully portioned before service, then placed on the serving tray with care as the men pass by the service counter.

Keep Cooking Equipment Clean: It is important that cooking equipment be kept scrupulously clean. Be sure that thermostats and thermometers are carefully checked at periodic intervals.

Cook Vegetables in Small Quantities: To conserve the natural color, texture, flavor, and nutritive value of fresh vegetables, they must be cooked in relatively small quantities. As soon as they have cooked for the required length of time, they should be removed from the kettle and served immediately.

The cooking of vegetables should be a continuous process until everyone has been served.

Canned Vegetables: Since canned vegetables have been precooked they need only be heated to boiling temperature before serving. Excessive heating of canned foods at high temperatures will not only reduce the nutritive value but will also cause a decrease of palatability and appearance. It is preferable, therefore, to prepare the vegetables in small batches, rather than heat enough for the whole mess at one time and hold at a high temperature throughout the feeding period.

Prepare Just Enough Food to Be Consumed at Each Meal: The amount of food necessary for any given mess will vary in accordance with the care used in its preparation, the other foods on the menu, the likes and dislikes of the men to be fed, the care with which the food is served and the number of men present at each meal.

Absenteeism has a direct bearing on the amount of food necessary for the mess. Food should be prepared for the number of men who will be present at mess, not for the number assigned to the mess.

For these and other reasons, the amount of issue on a particular item may actually be less than the amount called for in the recipe.

Also, a large mess serving 1000 men will use less food than 10 messes each serving 100 men. To conserve food and avoid great amounts of leftovers, the following reductions are recommended:

For messes of 500 to 1000 men, reduce the amounts of ingredients in the recipe 5 per cent.

For messes of 1000 men or more, reduce the amounts of ingredients in the recipe 10 per cent.

The recipe for Knickerbocker Bean Soup, based on the requirements for 100 portions, is given as an example showing the quantities required for a mess of 1,000 men.

This calculation is made by multiplying each ingredient by 10 to obtain the amount required for 1000 portions on the 100 portion basis.

Since messes of 1000 or more men can effect savings of approximately 10 per cent, the quantity of ingredients required will be the amount calculated, less 10 per cent. For example, 7 pounds of beans, the quantity required in the Knicker-bocker Bean Soup recipe for 100 portions, multiplied by 10 amounts to 70 pounds. This amount, 70 pounds, less 10 per cent, or 7 pounds of beans, is equal to 63 pounds, the quantity of beans required for a mess serving 1000 men.

Note how this recipe should appear when the amount of issue for 1000 men is inserted in the blank column reserved for this purpose.

Portion: 1 cup (approx. 8 ounces).

		100 PO	RTIONS	/coo Portions
Ingredients	WEIGHTS		AMOUNTS (approx.)	or tions
Beans, white, dried	Pounds 7	Ounces	1 gallon	9 gallons
Water, cold	••••	****	To cover	To cover
Water, boiling			4 gallons	36 gallons
Salt pork, cubed		12	1½ cups	3/2 quarts
Carrots, chopped	••••	4	3/4 cup	63/40 cups
Onions, chopped		12	2½ cups	5/2 quarto
Meat Stock(page 251).	••••		2¾ gallons	24/4 gallons
Potatoes, diced	5	8	3½ quarts	8 gallons
Bacon fat or other fat.		4	½ cup	24 quarts
Tomatoes	6	6	1 No. 10 can	(7/13 gallone)
Salt	••••	2	$(3\frac{1}{4} \text{ quarts}).$	21/4 cups
Pepper		1/4	3/4 tablespoon	64 tablespoons

Pick over, wash, and soak beans 2 to 3 hours. Do not drain.

Combine with boiling water, salt pork, carrots, and half the onions. Heat to boiling temperature. Cook about 3 hours or until beans are tender.

Add stock and potatoes. Cook about 30 minutes or until potatoes are tender.

Fry remaining onions in bacon fat about 3 minutes, or until lightly browned.

Add tomatoes, salt and pepper. Combine all ingredients. Reheat.

Sanitary Aspects of Food Preparation

The bacteria now recognized as being responsible, in most cases, for what is known as "Food Poisoning," are present even under sanitary conditions. They produce a poisonous substance (called toxin) in the food, which when eaten, causes serious illness.

These bacteria grow and multiply rapidly in warm temperatures, 65° F. to 115° F. during which time the toxin is produced. A growth period as short as 5 hours has been found long enough for the bacteria to produce sufficient toxin to cause illness. It is possible that under favorable conditions, enough toxin can be produced in even a shorter period of time to make the food dangerous. The interval between the preparation and serving of food should, therefore, be kept at a minimum.

Foods Most Susceptible

The foods which seem to be most susceptible to the development of bacterial food poisons are ham, chicken, turkey, chopped cooked meat and egg for sandwich fillings, cream fillings, custard filled puffs and eclairs, bread puddings, beef hash and tongue.

Dehydrated foods, during and following reconstitution, are also susceptible. Care should be taken not to allow the reconstituted products to remain at warm room temperatures more than 3 hours from the time water is added for reconstitution until time for serving them.

Quick-frozen foods which have been defrosted are highly perishable, and they should be used immediately after being defrosted.

Necessary Precautions

Cooked Ham and Other Meat: Cooked meats, when placed on a steam table, must be kept at a temperature of 130° F. or above.

Meat to be held after cooking should be placed in a refrigerator as soon as it is cool enough to handle. To insure that the meat is cooled rapidly, it should be placed in shallow pans and so arranged as to provide for adequate circulation of the cool air.

Bread Pudding and Cream Fillings: Bread puddings, custards, eclairs, pies and other desserts with cream fillings should be covered and placed in a refrigerator until serving time. In hot weather they should not be prepared at all.

Plan Meals To Avoid Having Left-overs: Meals should be so planned that left-over food is reduced to a minimum. However, if there are left-overs, they should be refrigerated as soon as possible.

Hot left-over food should be placed in the refrigerator as soon as it is cool enough to handle. Cold food should be placed in the refrigerator immediately following the service of food to the mess. All left-over food should remain in the refrigerator until time to prepare it for the meal. It should be used within 36 hours.

Sandwich Fillings: Sandwich fillings made from ham, tongue, fried egg, egg salad, sausage and fish must be prepared quickly and just previous to making the sandwiches.

If the fillings need to be made 2 to 3 hours before using the sandwiches, place the filling in a refrigerator immediately after making it and keep refrigerated until time to make the sandwiches. Cover the sandwiches with wax paper instead of covering them with a damp cloth.

Keep Time Short Between Preparation and Serving: Cut the length of time between preparation and serving to the minimum. Food should always be served immediately after it has reached the right degree of doneness, if possible. If the food must be held, no more than 4 hours should elapse

after removal of food from heat. The timing should begin at this point and not after the food has been sliced or otherwise prepared for service.

Cleanliness Is Imperative: All cooking and mess equipment must be kept scrupulously clean at all times. See that the dishwashing water is at a temperature of at least 120° F. to 140° F. and that the temperature of the rinse water is held at approximately 180° F. to 210° F.

Hands and clothing of all personnel handling food must be kept scrupulously clean at all times. Careful inspection is necessary to eliminate any men with infections. Personnel should be cautioned against sneezing or coughing in spaces where food is prepared and served.

Nutritional Value of Foods

The modern knowledge of nutrition indicates that foods serve specific functions in the body. Therefore, men need foods of different types in adequate quantities. All materials for building and maintaining strong, active bodies must be secured from the dairy products, eggs, fruits and vegetables, meats, and cereal products which are issued to the mess.

Abnormal supply conditions may make it necessary to substitute some foods for others. It is essential, therefore, to know which nutrients are required and which foods are richest in these nutrients.

The four cornerstones of the diet are proteins, vitamins, minerals, and energy-producing factors, all of which are essential to the maintenance of health.

PROTEINS

The substance in foods which are called proteins merit their name which means "to take first place." They furnish essential building and repairing material for muscles and tissues of the body and enter into many, if not all, of the body functions. They also furnish energy.

Protein from animal sources in general is superior to protein from vegetable sources. *Best sources:* Milk, eggs, meat, fish, and poultry. *Other sources:* Dried peas and beans, cereals, and vegetables.

VITAMINS

Vitamins are definite chemical substances present in food in minute quantities. They are necessary for growth and the maintenance of normal body functions. The effects of vitamins on health are spectacular. There are several known vitamins which must be adequately supplied in the diet. All are essential for good health, but each has certain special functions. A brief summary of the functions and sources of the better known vitamins is herewith presented.

Vitamin A

An adequate intake of vitamin A is necessary for normal resistance to infections and better vision in dim light. It may therefore be particularly important for all seamen standing night watches and for flyers. Best sources: Butter, liver, egg yolk, cheese, fish liver oils, yellow and green vegetables, and fruits.

Vitamin B₁

Vitamin B₁ (thiamin) affects moralle and disposition, helps to prevent fatigue, maintains appetite, healthy nerves, and normal muscle action. This vitamin is destroyed by excessive heat. It is readily soluble in water and therefore is partially lost if cooking water is discarded.

Best sources: Liver and kidney, lean meat, especially pork, beans and peas, cereals with whole grain value, enriched flour, nuts, milk, and eggs.

Riboflavin

Riboflavin is essential to growth and normal nutrition for all ages. Deficiencies may result in digestive disturbances, nervous depression, general weakness, and poor conditions of the eyes and skin. Riboflavin is soluble in water and is destroyed by light. Best sources: Milk, lean meat, eggs, liver, green vegetables, peas, and beans.

Niacin

Niacin, a third water-soluble vitamin, prevents the deficiency disease called pellagra which is usually manifested by skin disorders, and in severe stages, mental disturbances. Best sources: Liver, lean pork, salmon, whole grain cereals and enriched flour, milk, and eggs.

Vitamin C

Vitamin C (ascorbic acid), "the sailor's vitamin" prevents scurvy, that scourge of long voyages in olden days which is now reduced because of better methods of food preservation such as canning and cold storage.

This vitamin is necessary to maintain the health of teeth and gums, to aid in resistance to infections, to prevent listlessness and fatigue and to maintain the strength of the bony structure and of the walls of the blood vessels. It is soluble in water and is partially destroyed by cooking, this loss being less in acid fruits and tomatoes. Best sources: Citrus fruits, raw vegetables, fresh fruits and fruit juices, tomatoes, raw or canned. Other sources: Green vegetables and potatoes, if not overcooked.

Vitamin D

Vitamin D is concerned with the efficient utilization of calcium and phosphorous in the normal development and growth of the bones and teeth. Best sources: Fish liver oils, egg yolk, liver, and irradiated food. Sunshine affects the skin in such a way as to produce vitamin D which is utilized in the same manner as vitamin D from food.

Although there may be requirements for other less well known vitamins, a well rounded diet that provides sufficient amounts of the vitamins listed above will in general supply these in adequate quantities.

MINERALS

Certain mineral elements are needed by the body for growth and maintenance of body structure and processes. Some of these are so widely distributed in foods that they are usually supplied in sufficient amounts in any diet. Calcium and iron, however, may be too low unless care is taken in food planning.

Calcium

Calcium, combined with phosphorous, furnishes the material from which bones and teeth are built, aids in the clotting of blood, and in regulating the action of nerves and muscles. Calcium is not quite as readily lost in cooking as are other minerals. *Best sources:* Milk, whole or skim (fresh, dehydrated), milk (evaporated), cheese. *Other sources:* Leafy vegetables, molasses, dried beans, or soy beans.

Iron

Iron is required for the formation of the coloring matter of the red blood cells. Unless sufficient amounts of this substance are present, the blood cannot efficiently carry oxygen to all parts of the body for the continuance of life. Best sources: Eggs, meat, molasses, green vegetables, dried fruits, dried beans, whole grain cereals, and enriched flour.

ENERGY-PRODUCING FOODS

Active men need large amounts of energy, 3,000 to 4,500 calories per day. In a well balanced diet it is estimated that approximately 10 to 15 per cent of the calories should be derived from protein; 55 to 70 percent from carbohydrate and 20 to 30 percent from fat. It is evident,

therefore, that although protein is useful as an energy-producing food as well as for its muscle building function, the majority of the energy is supplied from carbohydrates such as starches and sugars and from fats. *Best sources:* Fats and oils; flour (bread, cakes, pastry), spaghetti, macaroni, rice and other cereals; sugar and sirups.

Suggestions for applying the principles of nutrition in a practical manner are presented in the following chapter on planning the menu.

The Menu

A menu is a food plan for a meal, a day, a week or longer.

A balanced menu is a menu which includes the foods required by the body for most efficient functioning.

Planning the menu, therefore, should be of primary importance to the commissary personnel, for upon it depends, to a great extent, the health and morale of the men in the general mess.

A Food Guide, specifying the basic foods required daily for a balanced menu, is included in this chapter. Study it carefully.

While the emphasis in menu planning is placed on the nutritive value of the food, attention must also be given to providing meals which are interesting, attractive, varied, and satisfying. This is helpful in maintaining good morale.

In addition to the main factors involved in planning the menu, many helpful suggestions are included throughout this book in conjunction with recipes and with other explanatory material.

PLANNING THE MENU

First, Know the Foods Essential for Good Nutrition: It is important that the Nutritional Value of Foods (page 6) and The Food Guide (page 11) be studied before starting to plan the balanced menu. Include these foods in each day's menu.

Check Your Menus: Be sure each food group in the Food Guide is represented in the menu. Emphasis is placed on the use of fruits and vegetables because of their valuable contribution of minerals and vitamins.

Become Acquainted With the Recipes in This Book: The numerous recipes developed and tested, particularly for Navy use, allow for a wide selection. The introduction to each section, and the notes and variations of the recipes contain helpful information for menu planning, food selection, and preparation.

Study the "Tables": They contain valuable information which pertains to food planning.

Plan the Menus a Week in Advance: The Navy menu should be planned for an entire week sufficiently in advance to permit the ordering and receiving of required stores. This practice will allow time for figuring costs and for an orderly planning of the week's work, which are important factors in controlling the production of food necessary for a given mess.

Observe the Food "Likes and Dislikes" of the Men: Observe the food habits of the men, their likes and dislikes. This is helpful in planning and estimating the amount of food required for the number of rations to be prepared. Food left uneaten on the tray is wasted food.

Include Contrasting Foods in Each Menu: Foods contrasting in texture, color, and flavor tempt the appetite, give eye appeal, and increase the palatability of the meal.

Vary the Ways of Serving the Same Food: Avoid repetition. Become acquainted with the variations of the basic recipes. They offer a wide choice of ways to prepare a single food.

Consider the Climate: Whenever possible plan to serve cool, crisp, fresh foods and cool beverages in hot weather.

Use Fresh Foods in Season: Whenever practicable, this should be done. Fresh fruits and vegetables in season, can often be purchased at a lower cost than packaged products. By using them, it is possible to release processed products for ship and overseas use. Fresh foods purchased locally also help to relieve congestion in transportation.

Consider Cooking Equipment: Plan meals which can be prepared with the cooking equipment available. This insures better prepared meals and often prevents waste of food through improper cooking.

Use a Pattern for Planning the Day's Menu

Breakfast

Fruit: Fresh, frozen, evaporated, dehydrated, or canned fruits or fruit juices are used for appetizing as well as nutritional reasons. In one form or another, fruit is a welcome starter for the day, but need not be served for breakfast if it would be more useful in improving other meals.

Cereal: Cereal is a fuel food and has the advantage of being a carrier for milk. Serve hot or cold cereal depending on the supply, the climate, food habits of the men, or need for variety.

Main Dish: The main dish may be ham, bacon, eggs, sausage, creamed dried beef, fried mush, French toast, hot cakes, or other satisfying breakfast dishes. Do not have the same thing on the same day each week. If fried mush or French toast are on the menu, sirup, jam, or jelly should be served.

Bread: The bread should be varied as much as possible. Toast, rolls, cornbread, biscuits, coffee cake, doughnuts, and pan bread are some suggestions.

Jam or Jelly: Jam or jelly may be served in place of butter occasionally.

Beverage: The beverage may be either milk, coffee, tea, or cocoa.

Soup: Soup may be served at either the noon or evening meal, whichever one needs the extra nourishment. When a vegetable soup is on the dinner menu, the salad may be omitted if desired. Soup is one means of getting men to eat vegetables.

Meat: Meat is always popular. The meat purchased by the Navy is of good quality. Many cuts are spoiled by poor cooking. Do not have meat cooked too long in advance of the service period. Study pages 110 to 120 for information on proper handling and cooking.

Gravy: Gravy or sauce is usually served with meat. Good gravy is smooth, well seasoned, and not greasy. Serve hot.

Vegetables: A leafy green or yellow vegetable besides potato is valuable because of flavor, appearance, and vitamin content. See pages 278 to 283 for pertinent information on vegetable preparation.

Relish: A relish may take the place of salad occasionally. Raw carrot strips, young onions, radishes, sliced raw turnips, chopped cabbage and green peppers, sliced cucumbers and onions, and pickled beets are suggestions.

Salads: Salads may be made from meat, greens, vegetables, or fruits. Serve as cold and crisp as possible.

Dessert: Dessert has a definite place in the menu because it gives a feeling of satisfaction. Many people crave sweets and are accustomed to having them at the end of the meal. Dessert adds calories and will round out a light meal. Serve lighter dessert with a heavy meal.

Beverage: This can be coffee, tea, cocoa, milk, or a fruit-ade.

Supper

Main Dish: Meat may or may not be used, according to supplies on hand. The supper meal is usually a lighter meal than dinner. This depends upon the activities of the crew. It should be heavy enough to keep the men from being hungry when they turn in at night. Combinations of meat and rice, macaroni and cheese, chili con carne, chop suey, creamed meat, thick chowders, baked beans, and similar dishes are excellent dishes to serve at the supper meal.

The supper meal is also a good time to utilize leftovers from dinner, if there are any. They must be attractive and appetizing on their reappearance and, if possible, completely changed. Combinations such as rice and stewed tomatoes, carrots and peas, cooked vegetables made into a salad, meat and potatoes for hash are a few examples of how leftover foods may be utilized.

Salad: A salad fits well into the supper meal. A fruit or vegetable or a chef's salad with mayonnaise or cream dressing, when served in addition to the main dish, is satisfying and helps to balance the meal nutritionally.

Dessert: If the supper meal is lighter than dinner, the dessert can be richer and one that yields more calories such as pastry or pudding.

Beverage: Beverage can be a choice of coffee, milk, cocoa, tea or fruit-ade. In warm weather or hot climates, a cool beverage such as iced tea or a cold fruit-ade is preferable.

The extent to which these patterns can be followed is affected by the variety of available supplies. These supplies are limited aboard ship by the amount of storage space and refrigeration.

A FOOD GUIDE FOR MENU PLANNING

Include One or More from Each of the Basic Foods Each Day

Basic Foods	RECOMMENDED DAILY (For 1 Man)	Nutrition Highlights
Milk and Milk Products: Fresh fluid, evaporated or powdered milk, and cheese.	1 pint (liquid) or equivalent.	Milk furnishes protein of good quality, high content of calcium, phosphorus, vitamins A, riboflavin and considerable B ₁ (thiamin).
Eggs:		Cheese: Five ounces of American cheddar cheese is about equal to 1 quart of milk in calcium, phosphorus, and protein content.
Fresh, frozen, or pow-	1 egg	Eggs are especially valuable for their complete
dered. Butter	1 to 2 ounces	proteins, iron, phosphorus, and vitamin A. Butter is especially valuable for its vitamin A and fat content.
Meat, Fowl, Fish:		
Fresh, frozen, or canned	1 or more servings of meat, fish, or fowl.	 Meat furnishes complete proteins, phosphorus, iron, B₁ (thiamin), and riboflavin. Liver is especially high in vitamin A. Fish are important for protein and phosphorus. Salt water fish furnish iodine.
Legumes:		photas. Sait water hish further.
Dried kidney, lima and Navy beans; dried peas; also peanut but- ter.	Once or twice a week.	Legumes are chiefly important as a source of energy, proteins, phosphorus, iron, thiamin. Because they are not a source of complete proteins, legumes should be used only as a supplement and not as a total substitution for the animal proteins.
Cereals and Bread:		
Cereals, whole grain or restored to whole grain value. Bread, enriched.	2 or more servings	Cereals, with whole grain value, and bread, enriched, furnish energy, protein, bulk, iron, phosphorus and vitamins B ₁ , riboflavin and niacin.
Fruits:		
Fresh, frozen, canned, dried or dehydrated. Vegetables:	2 or more servings 1 fresh fruit when possible. Citrus fruit often.	Fruits supply vitamins, minerals and bulk. Citrus fruits are high in vitamin C. Yellow fruits supply generous amounts of vitamin A.
Fresh, frozen, canned,	2 or more servings	Vegetables furnish valuable vitamins, miner-
dried or dehydrated.	besides potato. 1 green or yellow vegetable each day and greens, cooked or in salads, often. Tomatoes often.	als and bulk. Some more than others. Green and yellow vegetables are valuable for vitamin A and iron. Use the outer dark green leaves of lettuce and cabbage in salads and soups. To save nutrients, use water in which vegetables are cooked for soups and gravies. Tomatoes, fresh or canned, are especially valuable for their vitamin C. Use them often,
		fresh or canned.
Note.—Other foods in	form of desserts	diet. Sugar supplies energy but makes no other

Note.—Other foods in form of desserts, sirups and sugar may be used to supplement the

diet. Sugar supplies energy but makes no other dietary contributions.

11 *

SUBSTITUTE FOODS OF SAME NUTRITIVE VALUE

It may be necessary sometimes to substitute one food for another in a planned menu. Certain factors will require consideration:

- 1. Whether it is equivalent in nutritional value to the food originally planned, and if not, the adjustments necessary to make it so.
- 2. The acceptability of the substituted food in relation to the other foods on the menu.

A chart giving the nutritive values of the different classes of vegetables, and suggested substitutions, is listed in the section on vegetables (page 283).

SAMPLE MENUS

Bill of Fare for the General Mess

Each of these pattern menus is offered as a guide for planning the weekly Bill of Fare for the General Mess, aboard ship and ashore.

These are balanced menus, planned to meet the nutritional requirements of the moderately active Navy man needing approximately 3,000 to 4,500 calories daily.

The suggested food selections and combinations are based upon Navy food issues, ration allowances and recipes in this book.

When the fresh or other foods suggested in the menus are not available, they should be replaced by canned and dehydrated or other foods of approximately the same nutritional value.

SAMPLE MENU FOR SPRING

	D	Drawan	Supper
	Breakfast	DINNER	
Mondax	Grapefruit Juice Cornflakes Milk Grilled Sausages French Toast Maple Sirup Butter Coffee	Cream of Vegetable Soup Roast Beef Brown Gravy Buttered Potatoes Harvard Beets Carrot and Celery Salad Ice Cream Rolls Butter Coffee	Lamb Fricassee Mashed Potatoes Tossed Green Salad French Dressing Coconut Jelly Doughnuts Bread Butter Tea
TUESDAY	Stewed Rhubarb Hominy Grits Milk Corned Beef Hash Poached Egg Danish Twists Butter Coffee	Chicken Broth Ham and Macaroni Salad Tomato Aspic Buttered Peas Lemon Meringue Pie Hot Biscuits Butter Coffee	Baked Pork Chops Hashed Browned Potatoes Glazed Carrots Cole Slaw Rice Custard Pudding Rolls Butter Milk
Wednesday	Orange Shredded Wheat Milk Griddle Cakes Maple Sirup Crisp Bacon Bread Butter Coffee	Creamed Chicken over Biscuit Baked New Potato Savory Green Beans Crisp Celery Assorted Fruit Gelatin Cubes Toast Butter Coffee	Griddle-Broiled Salisbury Steaks Potatoes Au Gratin Buttered Beets Lettuce Salad Ice Cream Bread Butter Fruit-ade
THURSDAY	Stewed Prunes Oatmeal Milk Grilled Sausages Scrambled Eggs Cinnamon Buns Jam Coffee	Cream of Green Pea Soup Roast Veal Natural Gravy Applesauce, canned Fried Hominy Buttered Spinach Cherry Roll Bread Butter Coffee	Creamed Chipped Beef on Toast Browned New Potatoes Mixed Vegetable Salad Boston Cream Pie Bread Butter Tea
FRIDAY	Half Grapefruit Cooked Whole Wheat Cereal Milk Fried Cornmeal Mush Maple Sirup Crisp Bacon Bread Butter Coffee	Tomato Juice Salmon Loaf Escalloped Potatoes Buttered Carrot Strips Waldorf Salad Angel Food Cake Bread Butter Coffee	Beef Stuffed Cabbage Rolls Franconia Potatoes Hearts of Lettuce Salad Thousand Island Dressing Pear Halves Coconut Butter Cookie Bread Butter Cocoa
SATURDAY	Banana Dry Cereal Baked Beans Catsup Raisin Buns Butter Coffee	Spanish Beef Steaks Parsley Buttered Potatoes Fresh Asparagus Crisp Celery Green Onions Tapioca Cream Rolls Butter Lemonade	Knickerbocker Bean Soup Welsh Rarebit on Toast Pickled Beet and Onion Salad Mixed Fruit Cup Bread Butter Coffee
SUNDAY	Sliced Pineapple Oatmeal Milk Fried Egg Lyonnaise Potatoes Crisp Bacon Toast Butter Coffee	Beef Broth with Barley Sugar Baked Ham Sweet Potatoes Baked with Apples Buttered Corn Lettuce Salad French Dressing Strawberry Shortcake Rolls Butter Coffee	Cream of Tomato Soup Hot Potato Salad Buttered Green Beans Crisp Carrot Strips Orange Oatmeal Cookies Bread Butter Milk

SAMPLE MENU FOR SUMMER

	Breakfast	DINNER	SUPPER
Monday	Fresh Peach Dry Cereal Milk Soft Cooked Egg Home Fried Potatoes Toast Butter Coffee	Green Split Pea Soup Roast Beef Natural Gravy Glazed Onions Corn on the Cob Perfection Salad Sliced Pineapple Bread Butter Coffee	Pigs in Blankets Hashed Browned Potatoes Sliced Tomato and Lettuce Salad French Dressing Berry Pie Bread Butter Coffee
TUESDAY	Chilled Cantaloupe Hot Wheat Cereal Milk Creamed Chipped Beef on Cornbread Toast Jam Coffee	Fricassee of Chicken Mashed Potatoes Buttered Asparagus Apple, Carrot and Celery Salad Chilled Watermelon Hot Biscuits Butter Iced Tea	Beef Loaf with Barbecue Sauce Noodles with Buttered Crumbs Cole Slaw Salad Strawberry Gelatin Bread Butter Lemonade
WEDNESDAY	Fresh Apricots Shredded Wheat Milk Navy Baked Beans with Salt Pork Danish Twists Butter Coffee	Roast Lamb Mint Sauce Escalloped New Potatoes French Fried Carrots Grapefruit and Green Pepper Salad Vanilla Ice Cream Whole Wheat Bread Butter Coffee	Cream of Chicken Soup Baked Luncheon Meat Sliced Cheese Cardinal Salad Chocolate Cake Square Rolls Butter Tea
THURSDAY	Chilled Half Grapefruit Hot Whole Wheat Cereal Milk Grilled Canadian Bacon Hashed Browned Potatoes Bread Butter Coffee	Vegetable Soup Cold Roast Beef Cold Potato Salad Spiced Beets Green Onions Spice Cake with Marshmallow Frosting Hot Biscuits Butter Iced Tea	Macaroni and Corn Au Gratin Buttered String Beans Grilled Tomato Jellied Mixed Fruits Bread Butter Milk
FRIDAY	Fruit Cup Corn Flakes Milk Roast Beef Hash Catsup Cinnamon Buns Butter Coffee	Broiled Halibut Steak— Lemon Slice Potatoes Au Gratin Fresh Lima Beans Tossed Green Salad French Dressing Peach Fudge Cookie Rolls Butter Coffee	Omelet with Creole Sauce Browned Potatoes Buttered New Cabbage Pineapple Upsidedown Cake Bread Butter Cocoa
SATURDAY	Fresh Berries Hot Wheat Cereal Milk French Toast Maple Sirup Grilled Sausages Bread Butter Coffee	Braised Liver Spanish Rice Buttered Fresh Peas Corn Relish Deep Dish Apple Pie Bread Butter Milk	Tomato Broth Salmon Salad French Fried Potatoes Crisp Carrot Sticks Brownies Rolls Butter Milk
SUNDAY	Chilled Fresh Plums Dry Cereal Milk Scrambled Eggs Crisp Bacon Sugar Doughnuts Toast Butter Coffee	Griddle-Broiled Beef Steak Creamed New Potatoes Buttered String Beans Raw Vegetable Salad French Dressing Fresh Peach Ice Cream Rolls Butter Iced Chocolate	Cream of Green Pea Soup Assorted Sandwiches (Sliced Egg, Lettuce and Tomato, and American Cheese) Crisp Celery and Radishes Jelly Roll Milk

SAMPLE MENU FOR AUTUMN

	Breakfast	DINNER	SUPPER
Monday	Baked Apple Oatmeal Milk Griddle Cakes Maple Sirup Crisp Bacon Toast Butter Coffee	Beef Broth with Barley Breaded Veal Cutlet Tomato Sauce Oven Browned Potatoes Mixed Cooked Vegetable Salad Cranberry and Orange Pie Bread Butter Tea	Pork Sausage Links and Sauerkraut Pie Mashed Potatoes Waldorf Salad Soft Molasses Cookies Bread Butter Cocoa
TUESDAY	Orange Hot Wheat Cereal Milk Scrambled Eggs and Ham Coffee Cake Butter Coffee	Beef Stew with Vegetables Corn Fritters Lettuce Salad French Dressing Sliced Pickles Pineapple Ice Cream Bread Butter Tea	Noodle Soup Smothered Ham Slices Baked Potato Buttered Cauliflower Tomato Salad, Mayonnaise Apple Torte Bread Butter Coffee
Wednesday	Banana Corn Flakes Milk Grilled Pork Sausages Lyonnaise Potatoes Toast Butter Coffee	Consomme Braised Veal Patties Mashed Potatoes Fried Eggplant Pickled Beet and Onion Salad Fruit Cup Rolls Butter Coffee	Broiled Beef Steak Browned Potatoes Mashed Hubbard Squash Dixie Relish Fresh Peach Cobbler Hot Biscuits Butter Coffee
THURSDAY	Chilled Melon Hot Whole Wheat Cereal Milk Roast Beef Hash Catsup Butterfly Buns Butter Coffee	Baked Canadian Bacon French Fried Potatoes Buttered Green Beans Orange Cole Slaw Pumpkin Pie Corn Bread Butter Fruit Punch	Tomato Rarebit on Toast O'Brien Potatoes Raw Vegetable Salad French Dressing Fruit and Rice Compote Toast Butter Tea
FRIDAY	Fresh Bartlett Pear Oatmeal Milk French Toast Maple Sirup Hashed Browned Potatoes Butter Coffee	Corn Chowder Oven Broiled Mackerel Spanish Sauce Mashed Potatoes Buttered Beets Crisp Celery Applesauce Cake Bread Butter Coffee	Spareribs with Barbecue Sauce Steamed Rice Buttered Broccoli Fresh Grapes Sugar Cookie Bread Butter Coffee
SATURDAY	Prunes Dry Cereal Milk Baked Beans Catsup Hot Biscuits Butter Coffee	Roast Beef Natural Gravy Lyonnaise Potatoes Buttered Cabbage Carrot and Lettuce Salad French Dressing Banana Fritters with Orange Sauce Whole Wheat Bread Butter Coffee	Spaghetti Loaf Buttered Peas Fruit Salad Mayonnaise Gingerbread with Frosting Bread Butter Milk
SUNDAY	Half Grapefruit Hot Wheat Cereal Milk Soft Cooked Eggs Grilled Bacon Toast Jam Butter Coffee	Cream of Tomato Soup Baked Chicken and Noodles Glazed Carrots Buttered Kale Cranberry Sauce Celery and Olives Maple Nut Ice Cream Rolls Butter Coffee	Broiled Cheeseburgers on Bun Potato Chips Escalloped Tomatoes Lettuce Salad French Dressing Sliced Pineapple Ginger Cookies Bread Jam Coffee

	1		
	Breakfast	DINNER	SUPPER
Monday	Prunes Oatmeal Milk Grilled Sausages Home Fried Potatoes Whole Wheat Bread Butter Coffee	Navy Bean Soup Fried Pork Chop Gravy Hominy Spoonbread Buttered Green Peas Apple Cole Slaw Salad Lemon Cream Layer Cake Bread Butter Coffee	Meat Loaf Tomato Sauce Baked Potato Buttered Carrots Peach Half Sugar Cookies Bread Butter Cocoa
TUESDAY	Half Grapefruit Hominy Grits Milk Griddle Cakes Maple Sirup Crisp Bacon Toast Butter Coffee	Tomato Broth Pot Roast of Beef Brown Gravy Mashed Potatoes Buttered Cabbage Crisp Celery Prune Whip Rolls Butter Coffee	Macaroni Au Gratin Stewed Tomatoes Mixed Vegetable Salad Devil's Food Cake with Coconut Frosting Bread Butter Milk
Wednesday	Chilled Figs Oatmeal Milk Scrambled Eggs Hashed Browned Potatoes Cinnamon Buns Butter Coffee	Cream of Celery Soup Veal Birds Franconia Potatoes Glazed Onions Lettuce Salad French Dressing Chocolate Ice Cream Bread Butter Coffee	Chop Suey over Cooked Noodles Pineapple Cole Slaw Apricot Cream Pie Whole Wheat Bread Butter Coffee
THURSDAY	Canned Peaches Hot Wheat Cereal Milk Grilled Bacon Soft Cooked Egg Coffee Cake Butter Coffee	Consomme Baked Ham Mustard Sauce Baked Rice and Cheese Buttered Spinach Perfection Salad Mayonnaise Apple Crisp Cloverleaf Rolls Butter Coffee	Grilled Frankfurters Relish Hot Potato Salad Banana Shortcake Buttered Toast Jam Milk
FRIDAY	Orange Shredded Wheat Milk French Toast Maple Sirup Cottage Fried Potatoes Bread Butter Coffee	Cream of Corn Soup Fried Flounder Tartar Sauce Parslied Potatoes Buttered String Beans Waldorf Salad Cherry Pie Bread Butter Coffee	Chili Con Carne Steamed Rice Grapefruit and Celery Salad Butterscotch Pudding Bread Butter Tea
SATURDAY	Apple Dry Cereal Baked Beans Raisin Buns Butter Coffee	Vegetable Soup Swiss Steak French Fried Potatoes Stewed Tomatoes Lettuce Salad Jellied Mixed Fruits Whole Wheat Bread Butter Coffee	Creamed Fish on Toast Succotash Sliced Pineapple Hot Gingerbread Bread Butter Coffee
SUNDAY	Stewed Apricots Hot Wheat Cereal Milk Fried Ham and Egg Butterfly Rolls Jam Butter Coffee	Bouillon Roast Loin of Pork Gravy Whipped Sweet Potatoes Buttered Asparagus Celery Applesauce Vanilla Ice Cream Rolls Butter Coffee	Noodles, Scalloped with Cheese, Tomatoes and Bacon Buttered Carrots Cranberry Orange Relish Hermits Bread Butter Milk

General Information and Tables Canned Foods

Commercially canned food is one of the most important types of preserved food used in Navy subsistence.

Carefully selected and prepared food is packed in containers and heated to definite processing temperatures for the proper length of time. These temperatures and processing times are selected to destroy or inhibit the subsequent growth of such bacteria as may be present on the food when it is packed. Therefore, properly canned food should keep as long as the seal of the container, or the container itself, is not broken.

If, however, the canned food should be stored at high temperatures, the bacteria which may not have been fully destroyed may become active and spoilage will result. As a precautionary measure, all canned food should be stored in a dry, cool place. High temperatures may also speed up corrosion of the cans and

cause the deterioration of the flavor and texture of the contents.

Research studies show that the vitamin content of commercially canned foods is relatively high. Vitamin A and carotene (provitamin A), vitamin D, riboflavin and niacin appear to be very little affected by the canning process. In the case of water soluble nutrients, part of the vitamins and minerals are contained in the liquid surrounding the food in the can. Therefore, to obtain full nutritional benefit from canned foods, the liquids should be reserved for use in sauces, gravies and soups or should be concentrated by rapid boiling to ½ or ½ the original volume and served with the food.

Since canned foods have been fully cooked in the canning process, it is only necessary to heat them to boiling temperature just before serving. In this way, the vitamins are better retained, and the food is more attractive and palatable than if a long cooking period is used.

TABLE OF WEIGHTS AND AMOUNTS FOR No. 10 CANS

	Manager on	Approx.	WEIGHT		Approximat	E AMOUNTS	
	Number of No. 10 Cans	Pounds	Ounces	Cups	PINTS	QUARTS	GALLONS
1/2		3	5	61/2	31/4	13/5	****
1 .		6	10	13	61/2	31/4	••••
4		26	8	52	26	13	31/4
8		53	••••	104	52	26	61/2
10		66	4	130	65	321/2	8 .
12		79	8	156	78	39	93/4
16 .		106		208	104	52	13
20		132	8	260	130	65	161/4
24		159		312	156	78	191/2
28		185	8	364	182	91	223/4
30		198	12	390	195	971/2	24½

SUBSTITUTING ONE CAN SIZE FOR ANOTHER

1 No. 10 can equals 7 No. 1 tall cans.

1 No. 10 can equals 5 No. 2 cans.

1 No. 10 can equals 4 No. $2\frac{1}{2}$ cans.

1 No. 10 can equals 3 No. 3 cylinders.

1 No. 10 can equals 2 No. 5 cans.

NUMBER OF CANS OF EVAPORATED MILK IN COMMON LIQUID MEASURES

Number of	APPROX. WEIGHT		APPROXIMATE AMOUNTS		UNTS
No. 1 TALL CANS	Pounds	Ounces	CUPS	QUARTS	GALLONS
1/2		71/4	5%		
1		141/2	12/3		
4	3	10	6 %	12/3	
8	7	4	131/3	$3\frac{1}{3}$	
10	9	1	$16\frac{2}{3}$	41/6	1
12	10	14	20	5	11/4
16	14	8	$26\frac{2}{3}$	$6\frac{2}{3}$	$1\frac{4}{5}$
20	18	2	331/3	81/3	2
24	21	12	40	10	2½
28	25	6	46%	$11\frac{2}{3}$	21/5
30	27	3	50	121/2	3
1 No. 10 (Confectioners' Size)	8		15	33/4	1

SIZES OF CANS—FRUITS AND VEGETABLES

SIZE OF CAN	AVERAGE NET WEIGHT PER CAN	APPROX. CUPS PER CAN
No. 1 tall	1 pound	2 cups (1 pint)
No. 2	1 pound 4 ounces	$2\frac{1}{2}$ cups
No. 2½	1 pound 12 ounces	$3\frac{1}{2}$ cups
No. 5	3 pounds 8 ounces	13/4 quarts
No. 10	6 pounds 10 ounces	31/4 quarts

SIZES OF CANS—JUICES

No. 2	1 pint 2 fluid ounces	2½ cups
No. 3 Cylinder	1 quart 14 fluid ounces	53/4 cups
No. 10	3 quarts	12 cups (3 qts.)

Dehydrated Foods

Dehydrated foods are fresh foods from which water and the inedible parts such as peels, cores, seeds, stems and bones have been removed.

The foods are thoroughly cleaned and then dried by scientifically controlled processes designed to retain much of the original food value, flavor and texture.

Dehydrated products, because of their reduced weight and bulk, save considerable storage space and therefore are part of the food supply of the Navy.

When stored in airtight, insect- and moisture-proof containers, dehydrated products will keep in moderate temperatures for indefinite periods of time. This is made possible because the moisture content has been reduced to a degree where the micro-organisms such as the yeasts, molds and bacteria, which cause spoilage in foods, cannot thrive. However, there are still some micro-organisms present on the food, in an inactive state, which remain inactive until moisture is restored to the product, at which time they again become active and may cause spoilage. It is therefore important that dehydrated products be kept free from moisture until they are ready to be used.

Before they can be used for final preparation in a meal, it is necessary to restore them to as nearly their original state as possible. This is done by restoring to the product the approximate amount of water, through absorption, that was originally removed in the process of dehydration. This process of restoration is termed "reconstitution." Directions for reconstituting and using the product in various prepared cooked dishes will be found in individual recipes in this book, under their respective classifications. For example, the recipe for Buttered Beets, using dehydrated beets is given on page 292 in the Vegetable Section. The recipe for Applesauce, using dehydrated apple nuggets will be found on page 86, under Fruits.

The dehydrated packaged soup mixes, especially the bean and pea soups, are highly nutritious and in addition can serve as a base for soups to which fresh or canned vegetables and meat may be added.

The flavor and palatability of dehydrated soups is definitely improved when meat stock instead of water is used as the liquid for reconstitution. Powdered bouillon or bouillon type products may be used for the preparation of meat stock when fresh meat and bones are not available. Recipes for the use of powdered bouillon are given on page 251.

Dehydrated milk and dehydrated eggs are supplied in powdered form. Information on powdered eggs and milk, and conversion tables showing the equivalents of fresh and powdered milk and eggs are given on pages 20 and 21.

As the process of dehydration is further developed, changes in the methods of reconstituting and cooking may be somewhat changed. Therefore, it is advisable to strictly follow directions which are supplied by the manufacturer for his respective product.

INFORMATION ON POWDERED EGGS

Powdered eggs are fresh eggs from which water has been removed in the drying process.

The food value of fresh and powdered whole eggs is approximately the same.

After reconstitution, powdered eggs may be used in the same way as fresh eggs. They must be treated the same as fresh eggs removed from the shell. Never let reconstituted eggs stand

more than 1 hour unless they are refrigerated

Powdered eggs vary in density. Some are more fluffy than others. It is desirable to use weights, if scales are available, as it is difficult to obtain exact amounts by measuring. Be sure that all measurements are level.

In recipes where dry ingredients are sifted together, powdered egg can be mixed with the dry ingredients. The water required to reconstitute the eggs should then be added to the other liquid in the recipe. This is important.

Always store powdered eggs in a cool, dry place in a tightly covered container, as they absorb moisture when exposed to air. Held at refrigerator temperature (50° F.) or below, powdered eggs (5% moisture content) should give satisfactory results for at least 1 year. Held at high temperatures (80° F. or above) powdered eggs soon become dull and dark in color and develop rancidity and off-flavors. Powdered eggs of low moisture content (2%) are more resistant to deterioration from storage at higher temperature.

TABLE OF EQUIVALENTS FOR FRESH, FROZEN AND POWDERED EGGS

FRE	SH SHELL EGGS	F	ROZEN EGGS	POWDERED EGGS plus WATE		plus WATER	
WEIGHT	AMOUNTS (approx.)	WEIGHT	AMOUNTS (approx.)	WEI	GHTS	AMOUNTS (approx.)	Amounts
Pounds	1 egg (3 table- spoons). 10 eggs (1 pint)	Pounds 1		Pounds			2 to 2½ table- spoons. 1½ cups.
2	20 eggs (1 quart)	2	20 eggs (1 quart)	••••	8	1 pint	1½ pints.
10	$100 \text{ eggs } (1\frac{1}{4} \text{ gallons}).$	10	100 eggs (11/4 gallons).	2	8	1½ quarts	3¾ quarts.

To Reconstitute Powdered Eggs

Sprinkle powdered eggs into cold water, stir-

ring constantly to avoid lumping. Mix until smooth. Never add hot water to powdered eggs.

INFORMATION ON POWDERED AND EVAPORATED MILK

The formulas and recipes in this book specify liquid milk.

Milk may be supplied in the form of fresh liquid milk, powdered whole and evaporated milk reconstituted with water to give an approximate equivalent of fresh milk.

After reconstitution, powdered or evaporated milk can be used in exactly the same manner as fresh milk. No change is necessary in formula or recipe.

Storage

Always store both powdered skim milk and powdered whole milk in a tightly covered con-

tainer in a cool, dry place. Held at refrigerator temperature (45° F. or below), powdered skim or whole milk of good quality can given satisfactory results for almost 1 year. Held at high temperature (80° F. to 90° F.), powdered whole milk, because of its fat content, may develop rancid flavors rather quickly. Powdered skim milk, in time, will develop off-flavors when stored at high temperatures.

Evaporated milk may develop a musty off-flavor after storage for more than 18 months at room temperature (70° F.). Small solid particles, generally known as "milkstones" may develop. These have no detrimental effect on the use of the milk and are not harmful.

TABLE OF EQUIVALENTS FOR FRESH, EVAPORATED AND POWDERED WHOLE OR SKIM MILK

Water (to be	Amounts (approx.)	pts qts gals	:	:		: :	10
(te W	Arm (ap)	pts		:	•	:	:
1	unts .ox.)	qts			:	33,4	71/2
DRY SKIM MILK	Amounts (approx.)	sdno	~% /%	%4	က		
DRY	Weight	zo	134	$3^{1/2}$	14	9	12
	M	lbs				4	∞
Water (to be	Amounts (approx.)	gals pts qts gals	:	:	Н		10
Water (to be	Amo	sqt	:	-		:	:
	70	pt	-	:		_ :	
Œ	ints ox.)	gals	<u>"</u>	:	:	H	2
DRY WHOLE MILK	Amounts (approx.)	sdno	72	1/8	$31/_{2}$	$1\frac{1}{2}$ plus	3 plus
DR3	ght	OZ	2	4	:	:	•
	Weight	lbs			-	5	10
		gals	:		:	21/2	
ter be ed) unts		Eŭ	•	•		07	50
ater o be	ounts orox.)		:	:	2		5
Water (to be	Amounts (approx.)		:	:			
Water (to be	Amounts (approx.)		:	: : : : : : : : : : : : : : : : : : : :	2		: :
			: : : :	: : : :		:	5
						2½ 2	:
	Amounts Amounts (approx.)					:	:
	Amounts (approx.)					:	:
	Amounts (approx.)		9 1 1	2 1 1 1		:	:
red		lbs oz cup pts qts gals cup pts qts g	9 1	1 2 1 1 1		21/2	: : : : :
EVAPORATED MILK	Weight (approx.)	lbs oz cup pts qts gals cup pts qts	9 1 1	1 2 1 1 1 1		3 21/2	
EVAPORATED MILK	Weight (approx.)	lbs oz cup pts qts gals cup pts qts	9 1	1 1 2 1 1 1		22 3 2½	44 6
EVAPORATED MILK	Amounts (approx.)	lbs oz cup pts qts gals cup pts qts	1 9 1 1	1 1 2 1 1 1		5 22 3 2½	44 6
	Weight (approx.)		1 1 9 1 1	2 1 1 2 1 1 1		5 22 3 2½	44 6

To Reconstitute Evaporated Milk

Combine equal amounts of evaporated milk and water.

To Reconstitute Powdered Milk

Place measured amount of water in mixing bowl.

Sprinkle milk powder into water, slowly, stirring constantly with hand or mechanical whip to properly incorporate the powder.

Stir until milk powder is completely dissolved.

NOTE.—1. A better product, for beverage purposes, is obtained when powdered whole milk is reconstituted and held at refrig-

erator temperature for about 12 hours before using. Reconstituted milk is a perishable product and must be handled in the same way as fresh milk.

- 2. For use in coffee or on cereals, reconstitute powdered milk with $\frac{1}{12}$ the amount of water specified in Table, or combine reconstituted milk with evaporated milk.
- 3. The addition of 2 teaspoons vanilla flavoring and 1 teaspoon salt to 1 gallon reconstituted milk improves the flavor of the milk when used for drinking.
- 4. Powdered milk can be reconstituted with hot water, if hot milk is desired.

Quick-Frozen Foods

Quick freezing is a method of preserving fruits, vegetables, fish, poultry and meat in the natural state, by subjecting the product to a low temperature for a relatively short period of time.

Advantages of Using Quick Frozen Foods in the Navy

They are packed in convenient-sized containers which can be easily handled and stored.

They have the appearance and flavor of fresh products.

They retain a high per cent of their original vitamin and mineral content.

They are uniform in size and quality.

They are easy to prepare for cooking and serving.

They save shipping space because practically all waste is eliminated before packing.

Storage: All frozen foods are perishable and should be placed under refrigeration immediately upon delivery. The refrigeration temperatures for the various products should be about

0° F. to 8° F. if to be kept for any length of time.

Good circulation of air around the containers is important.

The arrangement of cartons should also be given careful consideration. Products to be used first should be placed so they can be easily and quickly procured.

Defrosting: The length of time necessary for defrosting is dependent upon the type of product and size of the container. In general, vegetables need not be defrosted. Meat and poultry need defrosting so that they may be prepared for cooking. Fruits are thawed but used while still cold. Defrosted products are highly perishable and should be used immediately after they have been thawed.

Cooking: Directions for preparing and cooking frozen vegetables, meats and poultry are given under their respective classification.

Package Directions: Read carefully and follow exactly the directions printed on the container for storing, defrosting and cooking. This is important.

INFORMATION ON FROZEN EGGS

An equivalent amount of frozen whole eggs, frozen egg whites and frozen egg yolks may be used in place of fresh eggs or reconstituted powdered eggs.

Whole eggs may be made from frozen whites and yolks by combining them in proportion of

2 parts whites to 1 part yolks.

Allow frozen eggs to thaw before using. Thawing should take place slowly without application of heat. When thawing is complete, use and treat the same as fresh eggs.

TIME-TABLE FOR DEEP FAT FRYING

	TEMPERATURE	TIME
		Minutes
Doughnuts:	380°F to 390°F	1½ to 2
Yeast Raised	370°F. to 380°F.	13/4 to 21/2
Fish:		
Cakes	370°F. to 375°F	2 to 3 1 to 3
Fillets (large)	365°F. to 370°F	4 to 6
Fillets (small)	1370°F. to 375°F	3 to 5
Oysters Scallops	355°F', to 360°F',	1 to 4 3 to 5
Smelts	370°F. to 375°F.	4 to 6
Fruit: Bananas	370°F. to 375°F.	1 to 3
Fritters		3 to 5
Meat:		
Cutlets (1 inch thick)	345°F. to 350°F.	5 to 8
Chops, breaded	345°F. to 350°F	5 to 8
Miscellaneous:		
Chinese Noodles	375°F. to 380°F.	1
Croquettes	370°F. to 375°F	3 to 4 2 to 3
riench ioast	300 1.	2 10 3
Poultry: Chicken (small pieces)	9650F to 9700F	7 +- 10
Chicken (large pieces, ½ chicken)	345°F. to 350°F.	7 to 10 8 to 14
Vegetables: Asparagus	375°F to 380°F	5 to 7
Cauliflower	375°F. to 380°F.	5 to 7
Egg PlantOnions, French Fried	375°F. to 380°F.	5 to 7
Potato Chips	340°F. to 345°F	5 to 6 4 to 5
		7 00 0
Potatoes, French Fried:	2050F to 2750F	04.0
Blanching Browning	395°F. to 400°F.	6 to 8 2 to 3
Potatoes, Shoestring or Julienne	325°F. to 335°F.	6 to 10

OVEN TEMPERATURES

Terms Commonly Used to Describe Oven Temperatures

Term:	Temperature:
Slow	250°F.–350°F.
Moderate	350°F.–400°F.
Hot	400°F450°F.
Very hot	450°F.–500°F.

SIZES OF SCOOPS OR DIPPERS

No. PER QUART		MEASURE	Approx. Weight	Use
30	1/8 cup	(2 tablespoons)	1 ounce	Drop cookies
24	1/6 cup ($(2\frac{2}{3}$ tablespoons)	2 ounces	Cream puffs, fritters
20	½ cup ($(3\frac{1}{5}$ tablespoons)	$2\frac{1}{2}$ to 3 ounces	Muffins, fish balls
16	1/4 cup	(4 tablespoons)	3 to 3½ ounces	Croquettes
10	½ cup ($(6\frac{2}{3})$ tablespoons)	$3\frac{1}{2}$ to 4 ounces	Vegetables, desserts
8	1/2 cup	(8 tablespoons)	4 to 4½ ounces	Vegetables, desserts
6	3/4 cup	(12 tablespoons)	5 ounces	Patties, salads

EQUIVALENTS OF WEIGHTS AND MEASURES

3	teaspoons	1	tablespoon
16	tablespoons	1	cup
1	cup (standard measuring)	1/	pint (8 fluid ounces)
2	cups	1	pint
2	pints	1	quart
4	quarts	1	gallon
8	quarts (dry)	1	peck
4	pecks	1	bushel
16	ounces	1	pound
32	ounces	1	fluid quart
Me	ess Kit Spoon (Army)	1	tablespoon
No	. 55 Dipper (Army)	1	3/4 quarts
No	. 56 Dipper (Army)	1	quart
Ca	nteen or Mess Kit Cup (Army and Navy)	. 1	½ pints

ABBREVIATIONS

A. P.	=as purchased	pt. =pint
E. P.	edible portion	qt. =quart
t. or tsp.	=teaspoon	gal.=gallon
T. or tbsp	e.=tablespoon	oz. =ounce
c.	=cup	lb. =pound

WEIGHTS AND APPROXIMATE EQUIVALENTS OF SOME COMMON FOODS

	Weights	APPROX. AMOUNTS
Allspice, ground	1 ounce	4½ tablespoons
Apples, A. P.	1 pound	1 pint, E. P.
Apples, diced	1 pound	1 quart
Apricots, dried, A. P.	1 pound	1½ pints
Bacon, cooked, diced	1 pound	1½ cups
Bacon, uncooked	1 pound	15 to 20 strips
Bacon, uncooked, diced	1 pound	1 pint
Bacon fat, melted	7½ ounces	1 cup
Baking powder	1 ounce	2½ tablespoons
Bananas, sliced	1 pound	1 pint
Beans, dried	1 pound	2½ cups
Beans, dried, 1 pound after cooking	2½ pounds	1½ to 1¾ quarts
Beef, cooked, chopped	1 pound	1 pint
Beef, cooked, diced	1 pound	$1\frac{1}{2}$ pints
Beef, uncooked, ground	1 pound	1 pint
Boiled dressing, cooked	1 pound	1 pint
Bread, broken	1 pound	½ gallon
Bread, soft, broken	1 pound	21/4 quarts
Bread crumbs, dry	1 pound	1¼ quarts
Bread crumbs, fresh	1 pound	½ gallon
Butter	1 pound	1 pint
Cabbage, chopped or shredded	1 pound	1 quart
Carrots	1 pound	6 small
Carrots, diced, cooked	1 pound	1½ pints
Carrots, raw, diced	1 pound	1½ pints
Celery, diced	1 pound	1 quart
Cheese, diced 1/4 inch, or ground	1 pound	3½ cups
Cheese, grated	1 pound	1 quart

WEIGHTS AND APPROXIMATE EQUIVALENTS OF SOME COMMON FOODS

	WEIGHTS	Approx. Amounts
Chicken, cooked, cubed	1 pound	1½ pints
Chili powder	1 ounce	6 tablespoons
Chocolate	1 pound	16 squares
Chocolate, grated	1 pound 1 ounce	
Chocolate, melted		
Cinnamon, ground	1 ounce	4½ tablespoons
Clams	1 quart 1 quart	24 to 40 large
Cloves, ground		
Cloves, whole	1 ounce	6 tablespoons
Cocoa	1 pound	4½ cups
Coconut, shredded	1 pound	1¾ quarts
Coffee, coarse grind	1 pound	$4\frac{3}{4}$ cups
Coffee, fine grind	1 pound	1¼ quarts
Cornflakes	1 pound	1 gallon
Cornmeal	1 pound	1½ pints
Corn sirup	11 ounces	1 cup
Corn starch	1 ounce	3 tablespoons
Crab, whole, A. P.	½ pound	½ cup meat
Crab meat, flaked	½ pound	1½ pints
Cracked wheat	1 pound	1½ pints
Cranberries, cooked	1 pound	1 quart
Cranberries, raw	1 pound	1 quart
Cream of tartar	1 ounce	3 tablespoons
Cucumbers, diced	1 pound	$1\frac{1}{2}$ pints
Currants, dried	1 pound	$1\frac{1}{2}$ pints
Curry powder	1 ounce	4½ tablespoons
Dates, pitted	1 pound	1½ pints

WEIGHTS AND APPROXIMATE EQUIVALENTS OF SOME COMMON FOODS

	WEIGHTS	APPROX. AMOUNTS
Eggs, hard-cooked, chopped	1 pound	2¾ cups
Eggs, whites	(18) 1 pound	1 pint
Eggs, whole	(10) 1 pound	1 pint
Eggs, yolks	(24) 1 pound	1 pint
Flour, white	1 pound	1 quart
French dressing	15 ounces	1 pint
Gelatin, granulated, unflavored	1 ounce	31/4 tablespoons
Gelatin, dessert, flavored	1 pound	$2\frac{1}{3}$ cups
Ginger, ground	1 ounce	5 tablespoons
Grapefruit, size 54	1	$1\frac{1}{2}$ cups sections
Ham, cooked, diced	1 pound	$1\frac{1}{2}$ pints
Hominy grits	1 pound	$1\frac{1}{2}$ pints
Honey	11 ounces	1 cup
Horse-radish, prepared	1 ounce	2 tablespoons
Jam	1 pound	1½ cups
Lemons	4 to 5	1 cup juice
Lemon juice	1 ounce	2 tablespoons
Lemon juice powder, synthetic		1 quart
Lemon rind	water. 1 ounce	1/4 cup
Lettuce, A. P. (average head)	9 ounces	1 medium head
Lettuce, broken, 2-inch pieces	1 pound	½ gallon
Macaroni, 1-inch pieces, uncooked	1 pound	11/4 quarts
Macaroni, 1 pound, after cooking	5 pounds	21/4 quarts
Maple tablets, imitation	2 tablets	1 teaspoon flavoring
Mayonnaise	1 pound	2 tablespoons flavoring 1 pint
Milk, evaporated, No. 1 tall can	14½ ounces	$1\frac{2}{3}$ cups
Milk, liquid	8 ounces	1 cup
Milk, powdered	1 pound	2½ cups

WEIGHTS AND APPROXIMATE EQUIVALENTS OF SOME COMMON FOODS

	WEIGHTS	Approx. Amounts
Molasses	11 ounces	1 cup
Mushrooms, fresh, sliced	1 pound	1¾ quarts
Mustard, dry	1 ounce	$4\frac{1}{2}$ tablespoons
Mustard, prepared	1 ounce	1/4 cup
Noodles, uncooked	1 pound	21/4 quarts
Noodles, 1 pound, after cooking	$4\frac{1}{2}$ pounds	3½ quarts
Nutmeats	1 pound	1 quart
Nutmeg, ground	1 ounce	3½ tablespoons
Oats, rolled	1 pound	$4\frac{3}{4}$ cups
Oats, rolled, cooked	1 pound	3 to 3½ cups
Oil	$7\frac{1}{2}$ ounces	1 cup
Onions, chopped	1 pound	1½ pints
Onions, dehydrated	2 ounces	1 cup
Onions, dehydrated, reconstituted	2 ounces plus 1 quart water.	1 pound chopped onions
Oranges	8 medium	1 quart sections
Orange rind	3 average size 1 bunce	½ cup
Oysters	1 quart	24 to 40 large
Paprika	1 ounce	$4\frac{1}{2}$ tablespoons
Parsley, chopped	3 ounces	1 cup
Peaches, canned, sliced, drained	1 pound	1 pint
Peanut butter	1 pound	13/4 cups
Peas, cooked	11/4 pounds	1 pint
Peas, green or yellow, split	1 pound	21/4 cups
Peas, 1 pound dried, after cooking	2½ pounds	$5\frac{1}{2}$ cups
Pepper, ground	1 ounce	3½ tablespoons
Peppers, green, chopped	1 pound	1 quart
Pickles, chopped	1 pound	1½ pints
Pickles, sweet relish	1 pound	2¾ cups
Pimientos, chopped	1 (7-ounce) can	1 cup
Pineapple, diced or tidbits	1 pound	1 pint

WEIGHTS AND APPROXIMATE EQUIVALENTS OF SOME COMMON FOODS

	WEIGHTS	Amounts (approx.)
Pineapple, fresh	2 pounds	1 pineapple
Potatoes, cooked, diced	1 pound	2½ cups
Potatoes, mashed	l pound	1 pint
Raisins, seedless	1 pound	1½ pints
Rice, uncooked	1 pound	1 pint
Rice, 1 pound, after cooking	3 pounds 6 ounces	½ gallon
Sage	1 ounce	½ cup
Salmon, flaked	1 pound	1 pint
Salt	1 ounce	2 tablespoons
Shortening	1 pound	1 pint
Soda	1 ounce	2 tablespoons
Spaghetti, 2-inch pieces, uncooked	1 pound	1¼ quarts
Spaghetti, 1 pound, after cooking	3 pounds	½ gallon
Spinach, raw, chopped	1 pound	1 gallon
Sugar, brown	1 pound	$1\frac{1}{2}$ pints
Sugar, confectioner's	1 pound	$3\frac{1}{2}$ cups
Sugar, granulated	1 pound	1 pint
Tapioca, pearl	1 pound	3½ cups
Tapioca, quick-cooking	1 pound	23/4 cups
Tea	1 pound	1½ quarts
Tomatoes, fresh, diced	1 pound	1 pint
Tuna fish, flaked	1 pound	1 pint
Turnips, raw, diced	1 pound	$1\frac{1}{2}$ pints
Vanilla	1 ounce	2 tablespoons
Vanilla tablets, imitation	1 tablet	1 teaspoon flavoring 2 tablespoons
Vinegar	1 ounce	flavoring 2 tablespoons
Wheat cereal, granulated	1 pound	1½ pints
Yeast, compressed	1/2 ounce	1 cake

Cookery Terms

To cook by dry heat in an Bake: Broil: To cook under or over direct heat to grill. Oven-broil: oven. When applied to meats it is called Roasting. to cook in an oven, uncovered. No liquid is added. Baste: To moisten foods while cook-Pan-broil: to cook uncovered ing, especially while roasting on a hot griddle or in hot meat. Melted fat, meat drippan, removing grease as it pings, stock, water or water accumulates. No liquid is and fat may be used. added. To make a mixture smooth Candy: To cook in sugar or sirup. Beat: or to introduce air by using a lifting motion with spoon Caramelize: To heat sugar or foods containing sugar until sugar or whip. melts and a brown color and characteristic flavor de-To rinse with boiling water, Blanch: drain, and rinse in cold velop. water. Used for rice, macaroni and other pastes to pre-Chill: To place in a refrigerator or vent sticking. cool place until cold. To cook in hot deep fat for Chop: To cut into pieces with a a short time until clear but knife or chopper. not brown. Used for pota-To cover entire surface of toes. Coat: food with a given mixture. To mix thoroughly two or Blend: Cream: Mixing until smooth, sugar, more ingredients. shortening and other ingredients to incorporate air so To cook in a liquid which Boil: that resultant mixture inbubbles actively during the creases appreciably in time of cooking. The boiling volume and is thoroughly temperature at sea level is blended. 212°F. When applied to eggs, the terms "hard-To cut into approximately Cube: cooked" and "soft-cooked" $\frac{1}{4}$ to $\frac{1}{2}$ inch squares. are used. Cut In Shorten- To combine firm shortening To brown meat or vegetables Braise: ing: and flour with pastry blenin a small amount of fat, der or knife. then to cook slowly, covered, at simmering temperature Dice: To cut into 1/4 inch or (185°F. to 210°F.) in a small smaller cubes. amount of liquid. The liquid may be juices from meat, or To mix a solid dry sub-Dissolve: added water, milk, or meat stance with a liquid until stock. solid is in solution. Bread: To dip appropriate food into To sprinkle or coat with an egg-milk mixture and Dredge:

flour, sugar, or meal.

then into fine dry crumbs.

See Bake. To cook by braising; us-Roast: Fricassee: ually applied to fowl, or veal cut into pieces. Sauté: See Fry. Frizzle: To cook in a small amount Scallop: To bake food, usually cut in of fat until food is crisp and pieces, with a sauce or other curled at the edges. liquid. To cook in hot fat. When a Fry: Score: To cut shallow slits or gashes small amount of fat is used, in surface of food with knife, the process is known as panfork or other implement. frying or sauteeing; when food is partially covered To brown the surface of shallow frying; when food is Sear: meat by a short application completely covered, deep-fat of intense heat to develop frying. flavor and improve appearance. See Broil. Grill: To cover uncooked lean meat Larding: Shred: To cut or tear into thin or fish with strips of fat, or strips or pieces using a knife to insert strips of fat with or a shredder attachment. a skewer. Simmer: To cook in liquid at a tem-Marinate: To cover with French dressperature just below the boiling and to let stand for a ing point (185°F. to 210°F.). short length of time. Steam: To cook in steam with or Milk, liquid: Refers to fresh fluid milk or without pressure. evaporated or powdered milk reconstituted to the equivalent of fresh fluid milk. Steep: To let stand in hot liquid below boiling temperature to Mince: extract flavor, color or other To cut or chop into very small fine pieces using knife qualities from a specific or chopper. food. Mixing: To unite two or more ingre-Stew: To simmer in liquid to cover dients. or in smaller amount. Oven-broil: See Broil. Sugar: Refers to granulated unless otherwise specified in recipe. Pan-broil: See Broil. Toast: To brown surface of a food Pan-fry: See Fry. by application of direct heat. Parboil: To boil in water until partially cooked. Toss: To mix lightly. Usually used for salad ingredients. Peel: To remove skin, using a knife or peeling machine. Truss: To bind or fasten together. Render: To melt fat trimmed from meats by heating slowly at Whip: To beat rapidly to increase low temperature. volume by incorporating air.

The Recipes

Information

Recipes are important. They are valuable as a guide to menu planning and to the preparation of food of high quality.

The recipes in this book have been selected and tested particularly for Navy use. They comprise a wide variety of foods based mainly upon the issues for a

Navy ration.

To obtain the desired results it is advisable to have a copy of the recipe at hand during food preparation. The recipe should be read several times in order to become thoroughly familiar with the contents before starting to prepare the food, and directions should be carefully followed.

WHAT TO KNOW ABOUT THESE RECIPES

The recipes have been calculated on the basis of 100 portions.

Blank Column

A blank column on the right side of the recipe has been reserved for the commissary steward to insert the calculations needed for supplies which apply to his respective mess. On page 3, in the Knickerbocker Bean Soup recipe, the use of the blank column is demonstrated. These calculations should be made in pencil so that changes can easily be made when necessary.

Yield and Portion

The yield for each recipe is given in weights or amounts (measures) and both are specified when considered necessary. This applies also to the individual portion. Because of the variability in equipment and conditions under which the food must be prepared, the approximate

weights and amounts, rather than the exact weights and amounts, are specified.

If the size of the portions are too large, or too small, for a given mess, the size of the portions should be regulated to suit the needs of the men.

Seasonings

Seasonings have an important place in the Navy diet as they help to relieve monotony and make the food more palatable and interesting.

A good cook uses seasonings wisely and varies them often. The amounts of seasonings included in various recipes throughout the book are on the "mild side," designed to suit the average taste. Over-seasoning is as undesirable as under-seasoning. Salt and pepper should be used with discretion. Seasonings such as parsley, green pepper, garlic, and pimiento may be omitted, when not available, without affecting the flavor of the food too much.

Weights and Measures

Ingredients are designated in both weights and amounts (measures). The amount specified for each ingredient is comparable to its weight and should be used only when scales for weighing are not available. More accurate results can be expected if the ingredients can be weighed instead of measured.

Amounts (measures) of ingredients are designated in teaspoons, tablespoons, cups, pints, quarts and gallons.

The 8-ounce standard measuring cup graduated in $\frac{1}{4}$'s, $\frac{1}{3}$'s, and $\frac{1}{2}$'s is used as a basis for the cup measurements.

For ingredients using 1 cup ($\frac{1}{2}$ pint) or more, the amount is expressed in terms of pints, quarts, and gallons.

Ladles, dippers and scoops, of definite measure, are also necessary for making accurate measurements (page 24).

All ingredients in these recipes are based on *LEVEL* measurements. These must be made *accurately* in order to obtain best results.

Tables of Weights and Measures are given on page 24.

A.P. and E.P.

A.P. refers to the net weight of a product "as purchased" in its natural state, parts of which are considered not edible.

For example, the net weight of a crate of grapefruit is approximately 74 pounds, as purchased (A.P.). The peelings weigh about 29 pounds, leaving an "edible portion" (E.P.), of 45 pounds.

Notes

The *NOTE* appearing below the recipe contains valuable information pertaining to the recipe. It frequently contains suggestions on methods of preparation and should be carefully read before preparing the recipe.

Variations

Variations of the basic recipe are valuable because they show how the basic recipe can be easily changed into a different recipe by the substitution of one or more ingredients. Variations in this way help to relieve monotony in the diet.

Each variation is listed in the index as a separate recipe.

Time and Temperatures

The length of time for cooking is given in each recipe, and should be carefully noted. This information is particularly helpful as a guide in meal planning.

Specific temperatures for cooking and baking in the oven are also given.

Tables containing general information on preparation and cooking-time for cereals, sauces, fruits, vegetables and meat are given in each respective section.

These recipes have been developed and tested at altitudes less than 5,000 feet. The temperature of boiling water referred to in these recipes is 212° F.

Simmering temperatures range between 180° F. and 210° F.

Average room temperature is considered to be 68° F. to 70° F.

Beverages

Roasted coffee is a delicate and perishable product. Whether ground or in the bean, unless vacuum packed in tin, coffee requires careful handling. It loses both flavor and strength on contact with air.

Store coffee, tightly covered, in a cool, dry place. Avoid storing it near foods which have strong odors. Roasted coffee readily absorbs foreign odors, and these make themselves apparent in the finished brew.

If coffee in the bean is procured for general mess use, grind only the quantity required just previous to using it each time the brew is made.

Navy coffee has been expertly blended and roasted. If a few simple rules for making coffee are followed, a rich and enjoyable brew may be expected.

General Rules

Always use clean equipment.

Rinse urn bag with fresh cold water before using. Measure coffee and water accurately.

Use freshly drawn cold water which has been brought to a rapid bubbling boil for brewing coffee.

Keep coffee covered while brewing.

Hold finished coffee at temperature of 185° F. to 190° F. until served. Never allow finished coffee to boil.

Remove grounds as soon as coffee is made. Seepage from coffee grounds impairs the good flavor and aroma.

Use fresh coffee for each brew. Never use any portion of used coffee grounds a second time.

Make coffee fresh as needed. Never allow more than an hour to elapse between making and serving the coffee.

Care of Urn Equipment

Keep all parts of urn equipment scrupulously clean.

Rinse urn thoroughly with clear, hot water after each use.

Wash urn twice every 24 hours using urn brush, hot water, and washing soda. Use approximately 1 tablespoon washing soda for each quart water. Never use soap or soap powder.

Rinse urn thoroughly several times with clear, hot water. Be sure that all traces of washing soda are removed.

Remove coffee faucet on urn daily. Scrub all parts thoroughly with brush, hot water, and washing soda. Rinse throughly with clear, hot water. Insert long, thin coffee pipe brush and scrub inside of faucet pipe and plug at bottom of inner liner thoroughly. Rinse with clear, hot water.

Clean gauge glasses at least twice each week using gauge glass brush, hot water, and washing soda. Rinse thoroughly with clear, hot water.

Rinse urn bag in clear, cold water after each use. Keep bag submerged in cold water at all times when not in use. Renew cloth bag frequently.

If filter basket is used, wash and dry all parts thoroughly after each use.

Care of Glass Coffee-Makers

Wash upper and lower bowls in clear, hot water after each use.

Rinse filter cloth in clear, cold water. Keep submerged in cold water when not in use. Renew frequently. Scald new filter cloth. Rinse in cold water before using.

Dry outside of upper and lower bowls before placing over heat. Never allow empty bowl to remain on heat.

Scrub out tube of upper bowl regularly with stiff brush to remove all coffee stains.

Place coffee-maker on rubber, asbestos, or cork mat after removing from heating unit. Heatresistant glass may break if placed while hot on a cold surface.

METHODS OF MAKING COFFEE

Urn Bag Method

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 PO	Donassia	
Ingredients	WEI	GHTS	Amounts (approx.)	Portions
Water, freshly drawn, cold	Pounds	Ounces	6½ gallons	
Coffee, regular Navy grind	3		3¾ quarts	

Pour water into hot water boiler. Heat to boiling temperature.

Fill jacket of coffee urn with water ¾ full as indicated on the gauge glass. Maintain temperature of this water at 185° F. to 190° F.

Rinse urn bag with clear, cold water. Place in position in empty urn, in which coffee is to be made, making sure that both the urn bag and urn ring are correct size.

Place coffee in urn bag.

Draw off boiling water, 1 gallon at a time. Pour slowly in circular motion over coffee in bag. Keep covered between pouring of each gallon of water to keep heat and aroma in the coffee brew.

Repour 4 gallons brewed coffee over coffee grounds.

Remove urn bag and coffee grounds, immedi-

ately after all the brewed coffee has dripped through.

Draw off 1 gallon brewed coffee. Repour into urn to insure uniform strength throughout the brew.

Hold finished coffee at temperature of 185° F. to 190° F. until served.

Empty coffee grounds from urn bag. Rinse bag thoroughly in clear, cold water. Keep submerged in cold water until used again.

NOTE.—1. If urn is not equipped with hot water boiler, heat water for brewing coffee in a separate utensil.

- 2. The jacket water is used to keep coffee warm and *must not* be used for brewing the coffee.
- 3. In making larger quantities of coffee, repour 2/3 of the brew over coffee grounds.

Bag Method

Pour water into large kettle. Heat to boiling temperature.

Place coffee in large, clean bag made of washed, unbleached muslin.

Tie top of bag securely and loosely to permit swelling of coffee. Tie with cord long enough to fasten to handles of kettle to facilitate removal.

Place bag of coffee in boiling water. Tie cord to handles of kettle.

Reduce heat to keep water below boiling temperature.

Submerge bag with stick or paddle. Push up and down to force water through grounds.

Cover kettle. Allow bag to remain in water 10 to 15 minutes, depending on strength of brew desired.

Lift bag out of brew. Hold over kettle until thoroughly drained.

Remove bag. Empty coffee grounds immediately. Wash bag in clear, cold water. Keep submerged in cold water until used again.

Hold finished coffee at temperature of 185° F. to 190° F. until served.

Note.—1. Use kettle in which coffee is made for coffee only.

2. Renew coffee bag frequently.

Portion: 1 cup (approx. 8 ounces)

Tyronynyma		100 PO	PORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	FORTIONS
Water, freshly drawn, cold	Pounds	Ounces 	6¼ gallons	
Coffee, fine grind	3		3¾ quarts	

Pour water into hot water boiler. Heat to boiling temperature.

Fill jacket of coffee urn with water ¾ full as indicated on the gauge glass. Maintain temperature of this water at 185° F. to 190° F.

Place filter paper evenly and smoothly over perforations in clean, dry filter basket.

Spread coffee evenly over filter paper so that no coffee goes under the paper.

Insert water spreader, or sieve, over coffee in filter basket. Place basket in position over empty coffee urn.

Draw off boiling water, 1 gallon at a time. Pour slowly in circular motion over coffee in basket. Keep covered between pouring of each gallon of water to keep heat and aroma in coffee brew.

Remove filter basket, after all water has dripped through.

Draw off 1 gallon brewed coffee. Repour into urn to insure uniform strength throughout the brew.

Hold finished coffee at temperature of 185° F. to 190° F. until served.

Empty coffee grounds from filter basket. Wash and dry all parts thoroughly.

Note.—Some filter devices are equipped with a very fine mesh sieve and do not require filter paper. Use same procedure for brewing coffee. Do not omit filter paper in equipment designed for its use.

Coffee Prepared With Cream and Sugar

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 P		
Ingredients	WE	IGHTS	AMOUNTS (approx.)	Portions
Milk, evaported		Ounces 12	3 No. 1 tall (14½ oz.) cans (1¼ quarts). 1 quart	
Sugar	4		½ gallon	
Coffee brew, hot			6 gallons	

Combine milk and water. Dissolve sugar in coffee. Pour milk into coffee. Mix thoroughly. Note.—11/2 pounds (11/4 quarts) powdered

skim milk and $1\frac{1}{2}$ quarts water may be used in place of 3 No. 1 cans ($1\frac{1}{4}$ quarts) evaporated milk and 1 quart water.

Percolator Method

(For small amounts)

Yield: 6 cups.

Portion: 1 cup (approx. 8 ounces).

	6 P		
INGREDIENTS	WEIGHTS	AMOUNTS (approx.)	Portions
Water, freshly drawn, cold	Pounds Ounces	6½ cups	
Coffee		7½ tablespoons	

Measure water into pot. Insert basket of percolator into pot. Measure coffee into basket.

Place pot over heat. Heat water to boiling

temperature. Allow water to percolate through coffee about 10 minutes.

Note.—Clean and rinse percolator thoroughly after each use.

Vacuum-Type Coffee Maker Method

(For small amounts)

Yield: 8 (8-ounce) cups.

Portion: 1 cup (approx. 8 ounces).

		8 PO		
Ingredients	WEI	GHTS	Amounts (approx.)	Portions
Water, freshly drawn, cold	Pounds Ounces		½ gallon	
Coffee, fine grind		31/2	3/4 cup	

Pour water into lower bowl. Place over heat and bring to a boil. Do not fill lower bowl. Leave air space of 1 to 2 inches below neck.

Moisten filter cloth and tie tightly over filter. Place in seat of funnel, or if using glass rod, place in position. Put in coffee.

When water in lower bowl is boiling, insert upper glass bowl into lower bowl with slight twist so that a perfect seal forms at neck of bowl. Water will start going from lower to upper bowl almost immediately. As soon as all the water, except a small amount below bottom of tube, has risen, stir coffee well and leave on heat about 2 minutes longer.

Remove from heat and place on rubber, as-

bestos, or cork mat. As the bowl cools, a vacuum is created and the filtered coffee flows into the lower bowl in only a few seconds.

Remove the funnel with a gentle side to side motion. The coffee is now ready to serve. Keep hot but do not allow it to boil.

Note.—1. Most of the vacuum-type coffee makers are made of glass, although there are some made of part glass and metal, all metal, or part plastic.

2. Directions supplied by different manufacturers of vacuum coffee makers vary, depending on type of grind, amount of coffee to be used, and on differences in the construction of the coffee maker.

Iced Coffee

Prepare coffee brew. Cool. Stir in sufficient cracked ice to chill.

Serve with or without cream.

Note.—1. If coffee is to be sweetened, add sugar while brew is still hot.

2. Coffee may be brewed double strength and, while still hot, sufficient ice added to chill thoroughly.

Tea

Tea must be made just previous to serving. The tea leaves must never be boiled as this im-

pairs the flavor and gives the tea a bitter taste.

Hot Tea

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 P		
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	Portions
Water, freshly drawn, cold	Pounds	Ounces 	61/4 gallons	
Tea	T	6	11/4 pints	

Place tea in muslin bag large enough to hold about three times the amount specified to allow for swelling of tea.

Tie top of bag with cord long enough to be fastened to handle of kettle to facilitate removal.

Measure water into kettle. Heat to boiling temperature. Turn off heat.

Drop tea bag into water. Tie cord to handle of kettle. Cover. Steep 5 to 7 minutes, depending upon strength of brew desired.

Remove bag. Serve tea in preheated pitchers.

Iced Tea

Use 7 ounces (1½ pints) tea and 6¼ gallons water. Prepare brew. Sweeten tea when hot, using approximately 4 ounces (½ cup) sugar

for each gallon of tea.

Cool. Stir in enough cracked ice to chill. Serve with lemon.

Portion: Approx. 11/2 ounces.

		100		
Ingredients	Weights		Amounts (approx.)	Portions
Cocoa	Pounds 2	Ounces 	21/4 quarts	
Sugar	3		1½ quarts	
Salt		1/2	1 tablespoon	
Water, boiling			11/4 gallons	
Vanilla		1	2 tablespoons	

Mix together cocoa, sugar and salt. Stir in enough boiling water to form a smooth paste. Add remaining water. Boil 5 minutes. Add vanilla.

Note.—1. This sirup can be kept under refrigeration for several days.

- 2. 3 pounds (48 squares) chocolate, melted, may be used in place of 2 pounds (21/4 quarts) cocoa.
- 3. Chocolate sirup may be used as a sauce for ice cream or puddings, or for making cocoa and chocolate milk.

HOT COCOA

Yield: Approx. 61/4 gallons.

Portion: 1 cup (approx. 8 ounces).

		100		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Milk, liquid	Pounds	Ounces 	5½ gallons	
Cocoa	1	8	1½ quarts	
Sugar	3		1½ quarts	
Salt		1/6	1 teaspoon	
Water			1½ quarts	

Heat milk to boiling temperature over hot water or in steam-jacketed kettle. Do not boil. Combine cocoa, sugar and salt. Add water

gradually to make a smooth paste. Heat to boiling temperature.

Stir cocoa sirup into milk. Beat thoroughly with wire whip.

Portion: 1 cup (approx. 8 ounces).

		100		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Chocolate Sirup (page 39)	Pounds Ounces 10		11/4 gallons	
Milk, liquid		 H	5 gallons	

Hot: Add Chocolate Sirup to milk which has been heated to boiling temperature and stir thoroughly. Cold: Add Chocolate Sirup to chilled milk. Stir thoroughly.

Note.—Reconstituted evaporated or powdered milk may be used.

Lemon Juice Powder, Synthetic

Navy issue lemon juice powder, synthetic, can be used satisfactorily, when properly reconstituted with water, in place of fresh lemon juice specified in the recipes and bakery formulas. Three ounces lemon juice powder, synthetic dissolved in 1 quart water is equivalent to 1 quart juice of fresh lemons.

Composition

This product is a mixture of dried pure lemon juice with corn sirup, dextrose, citric acid, ascorbic acid (vitamin C), tricalcium phosphate, and oil of lemon.

The synthetic powder will make six times as much beverage by volume as the straight lemon juice powder and will result in substantial saving of space and containers. Sufficient ascorbic acid has been added so that a 12-ounce serving of the beverage will furnish approximately 60 per cent of the daily requirement of vitamin C.

It is not possible to incorporate sufficient oil of lemon in the powder to give the maximum desired flavor without impairing keeping qualities. Therefore, in using synthetic lemon juice powder in the bakery products, puddings and fillings specifying lemon juice, it is often desirable to supplement the powder with additional oil of lemon.

The addition of Navy issue lemon oil flavoring to puddings, custards, fillings and other products in which synthetic lemon juice powder is used, gives a more pleasing flavor.

Use from $\frac{1}{2}$ to 1 teaspoon of lemon oil flavoring to 1 pint of pudding or filling.

LEMONADE

(Using Lemon Juice Powder, Synthetic)

Yield: Approx. 61/4 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Lemon juice powder	Pounds 	Ounces 12	12/3 cups	
Sugar	5		2½ quarts	
Water, cold			6 gallons	

Dissolve the lemon juice powder and sugar in water. Serve.

Note.—Do not use these crystals in hot or warm water.

Variations

Citrus Concentrates

Citrus concentrates may be used in place of lemons or oranges. They should be diluted according to directions on the package, adding sugar if so indicated. Follow directions carefully.

Fruit Lemonade

Fresh or canned fruit juices, or sirups from

canned fruits such as apricot, peach, cherry, plum, pear and pineapple may be used to advantage in making fruit lemonade.

Use 1 gallon fruit sirup in place of 2 gallons water and reduce amount of sugar to suit the taste.

Grape Lemonade

Use 1 gallon grape juice and ½ gallon pineapple juice for equal amounts of cold water.

LEMONADE

(Using lemons)

Yield: Approx. 61/4 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 7	ODWIONG	
Ingredients		100 P	ORTIONS	Portions
INGREDIENTS	WE	GHTS	Amounts (approx.)	
Sugar	Pounds 6	Ounces 	¾ gallon	
Water, hot			1 gallon	
Water, cold	••••		5 gallons	
Lemon juice	u =	T	$1\frac{1}{2}$ quarts (24 lemons)	
Ice		ш.	To chill	

Dissolve sugar in hot water. Add to cold water. Stir in lemon juice and ice.

FRUIT PUNCH

Yield: Approx. 63/4 gallons.

Portion: 1 cup (approx. 8 ounces).

Ingredients		100 F	Danasasa	
	WE	GHTS	AMOUNTS (approx.)	Portions
Tea, sweetened, cold	Pounds	Ounces 	4 gallons	
Apricot sirup			½ gallon	
Peach sirup		****	2½ gallons	
Lemon juice			3/4 gallon (48 lemons)	

Prepare sweetened cold tea according to recipe for Iced Tea (page 38).

Combine fruit juices and sweetened cold tea. Stir thoroughly. Add enough ice to chill.

NOTE.—9 ounces lemon juice powder, synthetic, added to $\frac{3}{4}$ gallon of water may be used in place of fresh lemon juice.

Portion: 1 cup (approx. 8 ounces).

		100 P	ORTIONS		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	- Portions	
Tomato juice, canned	Pounds 53	Ounces 	8 No. 10 cans		
Salt		1	(6 gallons). 2 tablespoons		
Pepper			1 teaspoon		

Combine tomato juice, salt and pepper. Chill. Note.—Tomato juice may be served unseasoned.

Variations

Tomato Juice Cocktail

Season tomato juice with 1/4 cup onion juice,

2 tablespoons Worcestershire sauce and $\frac{1}{2}$ cup lemon juice.

Tomato-Sauerkraut Juice Cocktail

Combine tomato juice with juice from canned sauerkraut or sauerkraut juice, in the proportion desired.

Cereals

Breakfast Cereals

Cereals and cereal products have an important place in the Navy menu, as they are a good source of food energy.

In addition to furnishing food energy, the whole grain cereals and restored breakfast cereals supply valuable vitamins, minerals and protein. Some of the refined cereals have been restored by the manufacturers to the nutritive value of the whole grain cereals by the addition of minerals and synthetic vitamins.

When cereals are served with milk, or milk and fruit, the protein, mineral and vitamin content of the meal is desirably increased.

There are three main types of breakfast cereals on the market:

1. Regular Cereals

This class includes rolled oats, corn meal, farina, cracked whole wheat and others which require complete cooking. These cereals are served hot.

2. Quick-Cooking Cereals

These cereals have been partially cooked before packaging and require a relatively short period of further cooking before eating. These are also served hot.

Cooked cereals may be used in meat loaves or added to soups. When placed into pans and chilled until firm, cooked cereals such as corn meal and farina may be sliced and fried and served with sirup, powdered sugar or fruit sauce.

3. Prepared or "Ready to Eat" Cereals

These comprise the packaged, dry cereals made from grains such as wheat, corn, rice, barley and rye. They are fully cooked and flavored before packaging. They are available in different forms such as granular, flaked, puffed and shredded.

If necessary or desirable, they can be reheated and recrisped by removing from the package and placing them into baking pans, in a slow oven (325° F.) about 5 minutes.

Macaroni, Noodles, Spaghetti and Rice

Macaroni, noodles and spaghetti are made from a base of hard wheat flour. Some noodles contain egg in addition.

Macaroni and spaghetti can be cooked in long sticks or in pieces, 1 to 2 inches long. If the ends of the long sticks are first dipped into boiling water, they will soften so that the entire mass can be gradually submerged and cooked in coils.

Macaroni, noodles, spaghetti and rice need to be cooked in large amounts of rapidly boiling, salted water, using approximately 4 times as much water as cereal. The product should be drained well immediately after cooking.

Macaroni, noodles, spaghetti and rice when combined with meat, cheese, eggs or milk can be used as a main dish. In this way, these cereals serve as an alternate for meat. A salad or one or two vegetables should be served in addition.

DIRECTIONS FOR COOKING BREAKFAST CEREALS

100 Portions

		XIMATE NTITY	G	***************************************	Cookin	G TIME	APPROXIMATE PORTIONS	
CEREAL	Weight	Amount	SALT	WATER	Steam- Jacketed Kettle	Double Boiler	Weight	Amount
Regular:	Pounds	Gallons	Table- spoons	Gallons	Minutes	Minutes	Ounces	Cup
Rolled Oats	6	13/4	6	5	20	30–45	5–6	2/3
Wheat Cereals.	6	11/8	6	5	20	30-45	56	2/3
Commeal	6	11/8	6	6	20–30	60	6–7	3/4
Hominy Grits.	6	11/8	6	6	20-30	60	6–7	3/4
Quick-Cooking:								
Rolled Oats	6	13/4	6	43/4	5	5–10	5–6	2/3
Wheat Cereals.	6	11/8	6	43/4	5	5–10	5–6	2/3
Whole Wheat Cereals	6	11/8	6	43/4	5	5–10	5–6	2/3

In Steam-jacketed Kettle

Rolled Oats (Regular)

Add salt to water. Heat to boiling temperature.

Add oats to water gradually, stirring to prevent lumping.

Stir only 1 or 2 times during cooking, to change position of cereal so that heat can penetrate evenly.

Cook at very "slow boil" until done.

Wheat Cereals (Regular)

Add salt to water. Heat to boiling temperature.

Stir cereal gradually into boiling water. Continue stirring until thickened.

Cook at very "slow boil" until done.

Hominy Grits and Cornmeal (Regular)

Add salt to water. Heat to boiling temperature.

Stir cereal gradually into boiling water. Continue stirring until thickened.

Cook at very "slow boil" until done.

In Double Boiler

Rolled Oats, Wheat Cereals, Hominy Grits, Cornmeal (Regular)

Place water in top of double boiler. Add salt. Heat to boiling temperature.

Stir in cereal gradually. Continue stirring until thickened.

Place top of double boiler over bottom, filled to $\frac{2}{3}$ capacity with boiling water.

Cook, without stirring, the required length of time or until done.

Note.—Stir Rolled Oats only the required number of times, and add only required amount

of water, otherwise a gummy cooked product will result.

300 or More Portions in Steam Jacketed Kettle

Granular Cereals

Start cooking process of cereals in cold water. Fill kettle with specified amount of cold water. Measure accurately. Stir in cereal, carefully mixing with water to form a smooth mixture.

Turn on steam. Continue stirring until cereal comes to boiling temperature and is thickened.

Stir only 1 or 2 times during cooking to change position of cereal, so that heat can penetrate evenly.

Cook about 30 minutes or until done.

Rolled Oats

Follow same method as used for preparing 100 portions in steam-jacketed kettle.

BOILED RICE

Portion: 4 to 5 ounces (approx. ½ cup).

		100 F			
Ingredients	WEIGHTS		* Amounts (approx.)	Portions	
Salt	Pounds	Ounces 5	10 tablespoons		
Water		·	4 gallons		
Rice	10		1½ gallons		

Add salt to water. Heat to boiling temperature.

Wash rice thoroughly. Drain. Stir slowly into rapidly boiling water.

Cook about 20 to 30 minutes or until rice is tender. Do not stir.

Drain well. Rinse with hot water. Drain.

Place in slow oven (250° F.) to dry and keep hot.

Note.—1 pound (1 pint) melted butter may be added just before serving.

BOILED MACARONI, NOODLES OR SPAGHETTI

Portion: 5 to 6 ounces (3/4 to 1 cup).

		100 F	7	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Salt	Pounds	Ounces 4	½ cup	
Water		<u></u>	8 gallons	
Macaroni	8	Ā —	2½ gallons	

Add salt to water. Heat to boiling temperature.

Stir in macaroni. Reheat to boiling temperature, stirring until boiling begins. Stir occasionally thereafter to prevent sticking.

Cook about 20 minutes or until macaroni is tender. Drain well.

NOTE.—1. Blanch macaroni only if it is to be used in a salad.

- 2. 9 pounds $(2\frac{3}{4})$ gallons) spaghetti or 6 pounds $(3\frac{1}{4})$ gallons) noodles may be cooked in same way as macaroni. Spaghetti is usually broken into 2 to 3-inch pieces before cooking.
- 3. Combine with Cheese Sauce (page 210), Tomato Sauce (page 218) or use as desired.
 - 4. Avoid overcooking.

Cheese

Cheese, being a milk product in concentrated form, takes exceedingly high rank on the list of essential foods in the Navy. It is high in proteins, vitamins and minerals. It is an excellent source of calcium.

In combination with spaghetti, macaroni, noodles or rice it serves well as a main dish on the dinner or supper menu.

BAKED MACARONI AND CHEESE

Portion: 8 ounces (approx. 1 cup).

		100 P		
Ingredients	Wei	GHTS	AMOUNTS (approx.)	Portions
Salt	Pounds	Ounces 5	10 tablespoons	
Water, boiling	<u></u>		10 gallons	
Macaroni	10		3 gallons	
Cheese, American cheddar, shredded.	8		2 gallons	

Add salt to water. Heat to boiling temperature.

Stir in macaroni. Cook 20 minutes or until tender. Drain well.

Place 1/2 the macaroni in well greased baking

pans. Cover with ½ the cheese. Add remaining macaroni. Sprinkle remaining cheese on top.

Bake in moderate oven (350°F.) 25 minutes or until cheese is thoroughly melted.

Portion: Approx. 2½-inch square.

		100 F		
Ingredients	WEIG	GHTS	AMOUNTS (approx.)	- Portions
Eggs, well beaten	Pounds 4	Ounces 8	45 (21/4 quarts)	
Milk, liquid			3¾ gallons	
Paprika			6 tablespoons	
Worcestershire sauce			½ cup	
Salt		3	6 tablespoons	
Butter or other fat, melted	·	6	3/4 cup	
Bread	9		100 slices	
Cheese, American cheddar, grated.	6		1½ gallons	

Combine eggs and milk.

Add paprika, Worcestershire sauce, salt and fat.

Trim crusts from bread. Place layer of bread on bottom of greased baking pan.

Sprinkle with cheese. Arrange alternate layers of bread and cheese until all is used.

Add milk mixture. Allow to stand 15 minutes.

Bake in moderate oven (350°F.) 30 to 40 minutes or until firm.

Note.—Before baking set pan of souffle in pan of hot water to insure smooth texture and bake.

MACARONI AND CORN AU GRATIN WITH BACON

Portion: Approx. 8 ounces; 1 slice bacon.

		100 P		
Ingredients	WEI	GHTS	Amounts (approx.)	Portions
Milk, liquid	Pounds	Ounces 	1½ gallons	
Butter or other fat, melted	1	4	11/4 pints	
Flour		10	2½ cups	
Salt		4	½ cup	
Pepper			1 teaspoon	
Mustard, dry		1/2	21/4 tablespoons	
Paprika		1/2	21/4 tablespoons	
Cheese, American cheddar,	2	8	2½ quarts	
chopped. Water			4 gallons	
Salt		1	2 tablespoons	
Macaroni	4	السرا	1½ gallons	
Corn, cream style	25	-2-	20 No. 2 cans	,
Bacon	6		(3½ gallons). 100 strips	

Heat milk to boiling temperature.

Blend fat, flour, salt, pepper, mustard and paprika to a smooth paste. Stir into milk. Cook until thickened, stirring constantly.

Remove from heat. Add cheese and stir until melted.

Add salt to 4 gallons water. Heat to boiling temperature. Stir in macaroni. Cook 20 minutes or until tender.

Combine macaroni, cheese sauce and corn.

Pour into greased baking pans.

Bake in moderate oven (350°F.) 25 minutes.

Broil bacon until it begins to curl. Place overtop of macaroni 5 minutes before end of baking period.

Note.—1. Whole kernel corn should be drained before adding to mixture. Reserve liquid for cheese sauce.

2. Spaghetti may be used in place of macaroni.

MACARONI WITH TOMATOES AND CHEESE

Portion: 8 ounces (approx. 1 cup).

		100 P		
Ingredients	WE	IGIITS	AMOUNTS (approx.)	Portions
Themselves	Pounds 12	Ounces 12	2 No. 10 cons	
Tomatoes	12		2 No. 10 cans	
Onions, chopped	••••	12	2½ cups	
Celery, leaves, chopped		11/2		
Sugar	••••	9	1½ cups	
Pepper			1 tablespoon	
Salt		31/2	7 tablespoons	
Butter		8	1/2 pint	
Cheese, American cheddar, shredded.	4	2	1 gallon	
Salt		1	2 tablespoons	
Water		••••	8 gallons	
Macaroni	8		$21\!\!/_{\!2}$ gallons	

Cook together tomatoes, onions, celery leaves, sugar, pepper and $3\frac{1}{2}$ ounces salt 20 minutes. Remove from heat.

Add butter and cheese to hot tomato mixture. Stir until cheese is melted.

Add 1 ounce salt to water. Heat to boiling temperature. Stir in macaroni. Cook 20 min-

utes or until tender. Drain well.

Combine sauce and macaroni. Place in greased baking pans. Bake in moderate oven (350°F.) 25 minutes.

Note.—Noodles or spaghetti may be used in place of macaroni.

Portion: Approx. 1 cup.

		100 P	ORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Milk, liquid	Pounds	Ounces 	4½ quarts
Butter, melted	1	8	1½ pints
Pimiento, finely chopped	2		1½ quarts
Salt		10	½ cup
Pepper		4	1½ teaspoons
Celery salt			1½ teaspoons
Mustard, dry			1½ teaspoons
Cheese, American cheddar, grated.	3		3/4 gallon
Eggs, beaten	3	10	36 (3½ pints)
Salt		4	½ cup
Water			9 gallons
Macaroni	6		2 gallons
Bread, cubed	2	4	1½ gallons
Paprika		••••	To garnish

Heat milk to boiling temperature. Add butter, pimiento, salt, pepper, celery salt and mustard. Remove from heat.

Add cheese. Stir until melted. Add eggs, stirring constantly.

Add ½ cup salt to water. Heat to boiling temperature.

Stir in macaroni. Cook 20 minutes or until tender. Drain well.

Combine bread and macaroni. Stir into milk mixture.

Place in greased baking pans. Sprinkle top with paprika.

Bake in slow oven (325°F.) about 25 to 30 minutes, or until firm.

Portion: Approx. 8 ounces.

		100 P		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Bread, day-old	Pounds 12	Ounces	8 (1½-pound) loaves	
Cheese, American cheddar,	9	8	21/4 gallons	
shredded. Eggs, slightly beaten	8	—	80 (1 gallon)	
Milk, liquid	****		3½ gallons	
Paprika	-	1/2	2½ tablespoons	
Salt		21/2	5 tablespoons	
Pepper		1/4	2¾ teaspoons	

Trim crusts from bread and cut into 1-inch cubes.

Arrange ½ of bread in bottom of baking pans. Cover with cheese. Place remaining bread cubes on top.

Combine eggs, milk, paprika, salt and pepper.

Pour mixture over bread and cheese, letting it soak into bread 45 minutes.

Bake in moderate oven (350°F.) about 1 hour, or until custard is set and bread is puffed and brown.

Serve immediately.

SPAGHETTI LOAF

Yield: Approx. 36 pounds.

Portion: Approx. 6 ounces.

		100 PC	ORTIONS	
Ingredients	WEIGHTS		Amounts (approx.)	IONS
Cheese, American cheddar, shredded.	Pounds 7	Ounces 	13/4 gallons	
Milk, liquid			5½ quarts	
Salt		4	½ cup	
Pepper			1 teaspoon	
Onions, minced		. 8	1½ cups	
Eggs, beaten	2	13	28 (5½ cups)	
Spaghetti	7		21/4 gallons	
Salt		11/2	3 tablespoons	
Water			7 gallons	

Melt cheese in milk over boiling water or in steam-jacketed kettle. Add 4 ounces salt. Stir in pepper and onions.

Add eggs slowly, stirring vigorously. Remove from heat.

Add 1½ ounces salt to water. Heat to boiling temperature.

Stir in spaghetti. Cook 20 minutes or until

tender. Drain well.

Combine spaghetti and cheese sauce. Pour into greased loaf pans.

Bake in moderate oven (350°F.) 1 hour.

NOTE.—1. 10 ounces $(1\frac{1}{2})$ pints) parsley, minced, may be added to sauce.

2. ½ ounce garlic may be cooked with spaghetti. Remove garlic after spaghetti is cooled.

MACARONI AU GRATIN

Portion: 8 ounces (approx. 1 cup).

		100 P		
Ingredients	WEI	GHTS	Amounts (approx.)	Portions
Milk, liquid	Pounds	Ounces 	2¾ gallons	
Butter or other fat, melted	1	8	1½ pints	
Flour		8	1 pint	-
Salt		3	6 tablespoons	
Pepper	I		1 teaspoon	
Salt		4	½ cup	
Water, boiling			9 gallons	
Macaroni	9		23/4 gallons	
Cheese, American cheddar,	8		2 gallons	
shredded. Bread crumbs, dry	1	8	½ gallon	
Butter, melted	1	8	1½ pints	

Heat milk to boiling temperature.

Blend together fat, flour, salt and pepper to a smooth paste. Stir into milk.

Cook until thickened, stirring constantly.

Add salt to water. Heat to boiling temperature. Stir in macaroni. Cook 20 minutes or until tender. Drain well.

Place macaroni in well greased baking pans. Cover with cheese.

Pour sauce over macaroni and cheese.

Mix together crumbs and butter. Sprinkle over macaroni.

Bake in moderate oven (350°F.) 25 minutes or until crumbs are browned.

Variation

Buttered Macaroni

Cook macaroni in boiling salted water 20 minutes or until tender. Drain well. Add 2 pounds (1 quart) melted butter. Serve with meat in place of potatoes.

NOODLES SCALLOPED WITH CHEESE, TOMATO, AND BACON

Portion: 8 ounces (approx. 1 cup).

		100 P		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Salt	Pounds	Ounces 4	½ cup	
Water, boiling		••••	8 gallons	
Noodles	8	•	4½ gallons	
Salt		1	2 tablespoons	
Pepper	-		2 teaspoons	
Tomatoes	19	2	3 No. 10 cans	
Cheese, American cheddar, shredded.	4	2	1 1 2 3	
Bacon, sliced	2		35 to 40 strips	

Add ½ cup salt to water. Heat to boiling temperature.

Stir in noodles. Cook 20 minutes or until tender. Drain well.

Add salt and pepper to tomatoes. Heat to boiling temperature.

Arrange alternate layers of noodles, tomatoes and cheese in greased baking pans. Top with bacon slices.

Bake in moderate oven (350°F.) 20 minutes or until bacon is crisp.

BAKED RICE AND CHEESE

Portion: 8 ounces (approx. 1 cup).

		100 P		
Ingredients	Weights		Amounts (approx.)	Portions
Butter or other fat, melted	Pounds 1	Ounces 8	1½ pints	
Flour	••••	12	1½ pints	
Salt	****	1	2 tablespoons	
Mustard, dry	••••	1/2	2 tablespoons	
Milk, liquid, hot	••••		5½ quarts	
Cheese, American cheddar, shredded.	6		1½ gallons	
Salt	****	3	6 tablespoons	
Water, boiling		1 1	3 gallons	
Rice, uncooked, washed	3	u	1½ quarts	
Bread crumbs, moist	1	8	¾ gallon	
Butter, melted (for crumbs)		8	1/2 pint	

Blend together fat, flour, salt and mustard to a smooth paste. Add milk. Cook until thickened, stirring constantly. Reduce heat. Add cheese. Stir until melted. Remove from heat.

Add salt to water. Heat to boiling temperature.

Stir in rice. Cook 20 to 30 minutes or until tender. Drain well.

Combine cheese mixture and cooked rice. Place in baking pans. Sprinkle with buttered crumbs.

Bake in slow oven (325°F.) 25 minutes or until crumbs are browned.

SCALLOPED RICE, CHEESE AND EGGS

Portion: Approx. 8 ounces.

		100 H	PORTIONS	
Ingredients	WEIGHTS -		AMOUNTS (approx.)	Portions
Milk, liquid	Pounds	Ounces 	2½ gallons	
Butter or other fat, melted	2		1 quart	
Flour	1		1 quart	
Salt		3	6 tablespoons	
Pepper			1 teaspoon	
Paprika		1	4½ tablespoons	
Cheese, American cheddar, shredded.	2		½ gallon	
Rice, uncooked, washed	6		3/4 gallon	
Salt		2	1/4 cup	
Water, boiling			6 gallons	
Eggs, hard cooked, sliced		· ;	48	
Cheese, American cheddar, shredded.	2		1/2 gallon	,

Heat milk to boiling temperature.

Blend fat, flour, 3 ounces salt, pepper and paprika to a smooth paste. Stir into hot milk. Cook, stirring constantly, until thickened.

Add 2 pounds cheese. Stir until melted.

Add ¼ cup salt to 6 gallons water. Heat to boiling temperature. Stir in rice. Cook in boil-

ing water for 20 minutes or until tender. Drain well.

Arrange alternate layers of rice, sauce and sliced eggs in greased baking pans.

Sprinkle shredded cheese over top.

Bake in moderate oven (350°F.) 30 minutes or until thoroughly heated through and cheese is browned.

TOMATO RAREBIT

Yield: Approx. 6 gallons.

Portion: Approx. 1 cup.

		100 PC	ORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Tomatoes	Pounds 19	Ounces 2	3 No. 10 cans	
Butter or other fat, melted	5		2½ quarts	
Flour	2		½ gallon	
Salt		6	3/4 cup	
Mustard, dry		1/2	21/4 tablespoons	
Cheese, American cheddar, shredded.	15		33/4 gallons	
Bread, toasted			100 slices	***************************************

Heat tomatoes to boiling temperature.

Blend together fat, flour, salt and mustard to a smooth paste.

Stir into tomatoes. Cook, stirring constantly, until thickened.

Add cheese. Stir until melted. Serve immediately on toast.

WELSH RAREBIT

Yield: Approx. 6 gallons.

Portion: Approx. 1 cup.

		100 P	Donassa	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Milk, liquid	Pounds 	Ounces 	2½ gallons	
Eggs, slightly beaten	2	8 ,	25 (11/4 quarts)	
Salt		11/2	3 tablespoons	
Mustard, dry		1	4½ tablespoons	
Cheese, American cheddar, shredded.	15		33/4 gallons	
Bread, toasted			100 slices	

Heat milk to boiling temperature.

Add eggs, salt and mustard, stirring rapidly and constantly to prevent cooking of the eggs.

Stir in cheese until melted. Remove from kettle. Serve immediately on toast.

Desserts

The dessert is important in both the dinner and supper menu. It rounds out the meal in a satisfactory manner and is one means of controlling the caloric content of the meal.

Serve a light dessert with the heavier meal and a sweeter, richer dessert with the lighter meal. Recipes for pies, other pastries and cakes are found in the bakery section of this book.

APPLE BROWN BETTY

Yield: Approx. 183/4 pounds.

Portion: 3½ ounces (approx. ½ cup).

		100 F	PORTIONS	
Ingredients	WEIGHTS		Amounts (approx.)	
Bread crumbs, dry	Pounds 3	Ounces 8	11/4 gallons	
Apples, diced	8		2 gallons	••••
Sugar, brown	2	8	1¾ quarts	
Nutmeg	••••	1/8	1½ teaspoons	
Cinnamon		1/4	1 tablespoon	
Lemon rind		1	½ cup	
Water		••••	1½ quarts	
Lemon juice			1/4 cup (1 lemon)	
Butter or other fat, melted	1	10	3½ cups	

Line greased baking pans with bread crumbs. Cover with a layer of apples.

Mix together sugar, nutmeg, cinnamon and lemon rind. Sprinkle over apples.

Arrange alternate layers of remaining bread crumbs, apples and sugar mixture, making top _ layer crumbs.

Combine water, lemon juice and butter. Pour over mixture.

Bake in moderate oven (375°F.) 45 to 60 minutes or until top is browned.

NOTE.—Serve hot or cold with hot or cold Lemon Sauce (page 73) or Orange Sauce (page 74).

Portion: 5 ounces (approx. 3/4 cup).

		100 P	ORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Eggs, whole	Pounds 4	Ounces 6	44 (21/8 quarts)	
Sugar	3		1½ quarts	
Salt		1/2	1 tablespoon	
Vanilla		3	6 tablespoons	
Milk, liquid			23/4 gallons	
Nutmeg		1/2	1½ tablespoons	

Blend all ingredients together thoroughly. Pour into baking pans or dishes.

Bake in hot oven (400°F.) about 30 minutes. Cool.

NOTE.—1 pound $1\frac{1}{2}$ ounces powdered eggs and $1\frac{5}{8}$ quarts water may be used in place of 4 pounds 6 ounces eggs.

CALIFORNIA CREAM

Yield: Approx. 31/8 gallons.

Portion: 3 ounces (approx. ½ cup).

		100 P	Z= 1 · .	
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Gelatin	Pounds	Ounces 41/2	7⁄8 cup	
Milk, liquid	****	••••	1½ gallons	
Salt			1½ teaspoons	
Sugar	3	****	1½ quarts	
Egg yolks, slightly beaten	1	8	36 (1½ pints)	
Egg whites, stiffly beaten	2		36 (1 quart)	
Orange juice			1½ quarts	

Soak gelatin in 1 pint of milk for 10 minutes. Heat remaining milk to boiling temperature.

Mix together sugar and egg yolks. Stir into milk. Cook until mixture coats spoon. Stir in gelatin. Cool.

Stir in orange juice. Fold egg whites in carefully. Chill.

NOTE.—1. Equal parts of powdered egg yolks and water may be used in place of the egg yolks.

- 2. $3\frac{1}{4}$ ounces powdered egg white and $1\frac{3}{4}$ pints water may be used in place of 2 pounds egg whites.
- 3. Other fruit juices may be used in place of orange juice. Properly diluted fruit concentrates can also be used.

ASSORTED FRUIT GELATIN CUBES

Yield: Approx. 211/2 pounds.

Portion: 4 ounces (approx. ½ cup).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Gelatin dessert, raspberry	Pounds 1	Ounces 2	2½ cups	
Gelatin dessert, lemon	1	2	2½ cups	
Gelatin dessert, lime	1	2	2½ cups	
Water, boiling		••••	3/4 gallon	
Water or fruit juice, cold			1½ gallons	

Stir 1 quart boiling water into each of the gelatins, separately, until gelatin is dissolved.

Stir ½ gallon cold water or fruit juice into each. Pour each gelatin into individual shallow pans.

Chill until firm. Cut into 1/2 to 3/4-inch cubes.

Combine different flavored cubes before serving.

Note.—1. Serve plain or with cold Custard Sauce (page 72), cold Fruit Sauce (page 73), bananas or berries.

2. Dip knife into warm water to cut gelatin.

ORANGE BAVARIAN

Yield: Approx. 16 pounds.

Portion: 3 ounces (approx. $\frac{1}{2}$ cup).

		100 F	PORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Gelatin, unflavored	Pounds	Ounces* 21/2	½ cup
Orange juice			2/3 cup
Milk, evaported, icy cold	9	1	10 No. 1 (14½-oz.) cans (1 gallon).
Sugar	2	6	42/3 cups
Lemon juice			½ cup (2 lemons)
Salt	- -		1 teaspoon
Orange sections, diced	5		½ gallon

Soak gelatin in orange juice for 10 minutes. Place bowl over hot water to dissolve gelatin.

Combine milk and sugar. Whip until fluffy with cold beater.

Add lemon juice, salt and dissolved gelatin. Continue whipping until stiff.

Fold in oranges. Place in refrigerator to chill until firm.

GELATIN BANANA DESSERT

Yield: Approx. 5 gallons.

Portion: 6 to 61/4 ounces (approx. 3/4 cup).

		100	Portions	
INGREDIENTS	WEIGHTS			AMOUNTS (approx.)
Water, boiling	Pounds	Ounces 	1 gallon	
Gelatin dessert, flavored	4	11	23/4 quarts	
Water, cold			1½ gallons	
Bananas, ripe	16		60 to 75	

Stir boiling water into gelatin until gelatin is dissolved. Add cold water.

Pour gelatin into pans to a depth of about 2 inches. Cool until slightly thickened.

Peel bananas. Arrange rows of whole bananas in cooled gelatin.

Chill until firm. Cut into squares or slices. Note.—1. Other fresh fruits except fresh

pineapple may be used with or in place of bananas.

- 2. Canned fruits, drained, also may be used.
- 3. Fruit juice from canned fruit should be used in place of water.
- 4. Bananas are fully ripe when the yellow peel is flecked with brown. Ripe bananas are thoroughly digestible and sweet in flavor.

LEMON SNOW

Yield: Approx. 31/8 gallons.

Portion: 11/3 ounces (approx. 1/2 cup).

Ingredients		100 F	PORTIONS	Portions
	WE	IGHTS	AMOUNTS (approx.)	
Gelatin, unflavored	Pounds	Ounces 4	7/8 cup	
Water, cold		•	1½ cups	
Water, hot			1½ quarts	
Sugar	2	4	1½ quarts	
Lemon juice			1½ cups (6 lemons)	
Egg whites	••••	13	16 (1½ cups)	

Soak gelatin in cold water 10 minutes.

Stir gelatin into hot water. Stir in sugar until dissolved.

Stir in lemon juice and chill until slightly thickened. Beat until light.

Beat egg whites to a stiff peak and fold into the mixture. Chill.

NOTE.—1. $1\frac{1}{4}$ ounces powdered egg white and $1\frac{1}{2}$ cups water may be used in place of 13 ounces of egg whites.

- 2. Reconstituted powdered or synthetic lemon juice may be used in place of fresh lemon juice.
- 3. Serve with cold Fruit Sauce (page 73) or cold Custard Sauce (page 72).

Portion: 4 ounces (approx. ½ cup).

		100 F	Portions	
Ingredients	WEIGHTS		AMOUNTS (approx.)	FORTIONS
Prunes, cooked	Pounds 6	Ounces 14	31/4 quarts	
Gelatin dessert, orange	2	12	21/4 quarts	
Water, boiling			3/4 gallon	
Sugar	2		1 quart	
Water, cold			2½ quarts	

Remove pits from prunes. Chop prunes very fine.

Dissolve gelatin in boiling water. Add sugar. Stir until dissolved.

Add cold water and prune pulp. Chill.

Place in mixer bowl. Whip until thick and fluffy. Chill until firm.

Note.—1. Serve with Whipped Evaporated Milk Topping (page 75) or cold Vanilla Sauce (page 76).

- 2. $2\frac{1}{2}$ pounds (5 cups) apricots, chopped, may be used in place of $2\frac{1}{2}$ pounds prunes.
- 3. An equivalent amount of fruit juice may be used in place of water.

FRUIT AND RICE COMPOTE

Yield: Approx. 301/2 pounds.

Portion: 5 ounces (approx. ½ cup).

		100 F	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Gelatin dessert, strawberry	Pounds	Ounces 12	3/4 gallon	
Water, boiling	-		3/4 gallon	
Sugar	1	4	2½ cups	
Fruit juices, mixed			3/4 gallon	
Pineapple, canned, cut in wedges.	6	8	1 No. 10 can	
Apricots, quartered	3	4	½ No. 10 can	
Rice, cooked	5		(1½ quarts). 3/4 gallon	

Dissolve gelatin in boiling water. Add sugar, stirring until dissolved. Add juice.

Chill until slightly thickened. Fold in fruits and rice.

Place in pans. Chill until firm.

Note.—Serve with Whipped Evaporated Milk Topping (page 75) or cold Custard Sauce (page 72).

Portion: Approx. 1/2 cup.

Ingredients		100 P		
	WEI	GHTS	AMOUNTS (approx.)	PORTIONS
Milk, liquid	Pounds	Ounces	4 gallons	
Rice	4		½ gallon	
Sugar	4		½ gallen	
Salt	••••	11/2	3 tablespoons	
Raisins	2	11	½ gallon	***
Butter		8	½ pint	

Heat milk to boiling temperature in steamjacketed kettle or in top of double boiler.

Wash rice. Stir into milk. Let simmer about 45 minutes or until rice is tender. Stir occasionally.

Stir in sugar, salt, raisins and butter.

Pour mixture into greased baking pans.

Bake in moderate oven (350°F.) about 30 minutes.

RICE CUSTARD PUDDING

Yield: Approx. 31/8 gallons.

Portion: 5 ounces (approx. ½ cup).

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Milk, liquid	Pounds	Ounces 	3 gallons	
Rice, cooked	3	6	½ gallon	•
Sugar	2	8	11/4 quarts	
Butter or shortening, melted.	1	••••	1 pint	
Eggs, whole	2	••••	20 (1 quart)	
Salt		1	2 tablespoons	
Cinnamon	••••	1/4	1 teaspoon	
Nutmeg	****	1/4	1 teaspoon	
Vanilla	***	2	1/4 cup	

Heat milk to boiling temperature. Stir in remaining ingredients. Mix thoroughly. Pour into greased baking pans.

Bake in moderate oven (375°F.) about 1 hour.

Serve with Vanilla Sauce (page 76) or Lemon Sauce (page 73).

Note.—8 ounces powdered eggs and 1 cup water may be used in place of 2 pounds eggs.

Portion: 4 ounces (approx. ½ cup).

		100 P	Portions	
Ingredients	WEIGHTS			Amounts (approx.)
Milk, liquid	Pounds	Ounces	3 gallons	
Bread cubes	2	8	11/4 gallons	
Sugar	2	8	11/4 quarts	
Butter or shortening, melted	1	••••	1 pint	
Eggs, beaten lightly	2	****	20 (1 quart)	
Salt		3	6 tablespoons	
Vanilla		2	1/4 cup	

Mix all ingredients together thoroughly.

Pour into greased baking pans 2 to $2\frac{1}{2}$ inches deep.

Bake in moderate oven (375° F.) about 1 hour.

Note.—8 ounces powdered eggs and $1\frac{1}{2}$ pints water may be used in place of 2 pounds eggs.

Variations

Chocolate Bread Pudding

Heat milk to boiling temperature.

Add 1 pound ($4\frac{1}{2}$ cups) cocoa or $1\frac{1}{2}$ pounds chocolate, melted, before mixing with other ingredients.

Raisin Bread Pudding

Add 3 pounds (2½ quarts) seedless raisins to bread mixture.

Caramel Bread Pudding

Use brown sugar in place of granulated sugar.

BUTTERSCOTCH PUDDING

Yield: Approx. 4 gallons.

Portion: 5 ounces (approx. 2/3 cup).

		100 P	ORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Sugar, brown	Pounds 5	Ounces 	33/4, quarts
Butter	2	8	11/4 quarts
Salt		3	6 tablespoons
Cornstarch	1	4	3¾ cups
Water			1½ quarts
Milk, liquid			4½ gallons
Vanilla		21/2	5 tablespoons

Combine sugar, butter and salt. Cook over low heat until sugar is melted.

Blend together cornstarch and water to a smooth paste.

Heat milk to boiling temperature. Stir cornstarch paste into milk. Mix until smooth.

Add sugar-butter mixture. Mix thoroughly. Cook in double boiler or steam-jacketed kettle about 30 to 40 minutes, or until thick and smooth. Remove from heat. Cool slightly. Stir in vanilla.

Serve cold.

Variations

Walnut Butterscotch Pudding

Add 1 pound $(1\frac{1}{2})$ pints) chopped walnuts with the vanilla. Other nuts, chopped, may be used.

Coconut Topping

Sprinkle shredded, dry or fresh, coconut on top of pudding.

CHOCOLATE PUDDING

Yield: Approx. 31/2 gallons.

Portion: 6½ ounces (approx. ½ cup).

		100 F		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Milk, liquid	Pounds	Ounces 	23/4 gallons	
Chocolate	2	4	36 squares	
Sugar	7	8	33/4 quarts	
Salt		11/2	3 tablespoons	
Flour	2	- 8	2½ quarts	
Eggs, whole	4	••••	40 (½ gallon)	
Butter	1	••••	1 pint	
Vanilla	••••	1	2 tablespoons	

Heat together 2 gallons milk and chocolate to boiling temperature.

Mix together sugar, salt, flour, remaining milk and eggs to a smooth paste. Stir into milk and chocolate mixture. Cook about 30 to 40

minutes or until thickened, stirring constantly. Stir in butter and vanilla. Cool.

Note.—1 pound powdered eggs and 1½ quarts water may be used in place of 4 pounds eggs.

VANILLA CREAM PUDDING

Yield: Approx. 31/8 gallons.

Portion: 4½ ounces (approx. ½ cup).

		100 P	ORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	ONS
Milk, liquid	Pounds	Ounces 	3 gallons	
Sugar	2	8	11/4 quarts	
Flour	1	4	11/4 quarts	
Salt		1/2	1 tablespoon	
Eggs, whole, slightly beaten	2	••••	20 (1 quart)	
Egg yolks, slightly beaten	1	12	42 (1¾ pints)	
Vanilla		4	½ cup	

Heat milk to boiling temperature. Combine sugar, flour and salt. Stir into milk.

Cook, stirring constantly, about 20 to 30 minutes or until thickened. Remove from heat.

Add eggs and egg yolks, stirring constantly. Add vanilla. Pour into containers to chill before serving.

Note.—1. 8 ounces powdered eggs and $1\frac{1}{2}$ pints water may be used in place of 2 pounds eggs.

- 2. Equal parts of powdered egg yolk and water may be used in place of the egg yolks.
- 3. 10 ounces cornstarch may be used in place of 11/4 pounds flour.

Variations

Coconut Cream Pudding

Stir in 1 pound 4 ounces (1\% quarts) shredded coconut.

Cherry Cream Pudding

Omit vanilla. Stir in 1 quart cherries, 2 ounces (1/4 cup) lemon juice and 1 ounce (2 tablespoons) almond extract.

TAPIOCA CREAM (Pearl tapioca)

Yield: Approx. 31/8 gallons.

Portion: Approx. ½ cup.

		100 P	Portions				
Ingredients	WE	IGHTS	AMOUNTS (approx.)	FORTIONS			
Tapioca, pearl	Pounds 1	Ounces 12	1½ quarts				
Water, cold	****		To cover				
Milk, liquid, hot			2½ gallons				
Eggs, slightly beaten	2		20 (1 quart)				
Sugar	3	8	13/4 quarts				
Salt		1	2 tablespoons				
Vanilla		1	2 tablespoons				

Soak tapioca in cold water to cover 6 to 8 hours or overnight.

Drain. Add hot milk. Cook 1½ to 2 hours or until clear.

Combine eggs, sugar and salt. Add tapioca mixture, stirring constantly.

Continue cooking slowly, only until egg is cooked.

Remove from heat. Stir in vanilla.

Note.—1. Overcooking after egg is added will cause mixture to curdle.

- 2. Serve pudding cold, plain, or garnish with canned or fresh fruits or jams.
- 3. Equal parts of powdered egg and water may be used in place of eggs.

TAPIOCA CREAM

(Quick-cooking tapioca)

Yield: Approx. 3 gallons.

Portion: Approx. ½ cup.

		100 P	ORTIONS
Ingredients	WEI	GHTS	Amounts (approx.)
Egg yolks, slightly beaten	Pounds	Ounces 8	12 (1 cup)
Milk, liquid			25/8 gallons
Tapioca, quick-cooking	1	8	4½ cups
Sugar	3		1½ quarts
Salt		1	2 tablespoons
Egg whites, stiffly beaten		10	12 (1¼ cups)
Vanilla		1	2 tablespoons

Stir egg yolks into ¾ gallon milk. Heat remaining milk to boiling temperature.

Stir egg yolk mixture, tapioca, sugar and salt into hot milk.

Cook rapidly 5 minutes, stirring constantly. Remove from heat.

Fold in egg whites. Add vanilla. Chill.

NOTE.—1. Serve plain or garnish with canned or fresh fruits or jam.

- 2. Equal parts of powdered egg yolk and water may be used in place of egg yolks.
- 3. 1 ounce powdered egg white and 11/8 cups water may be used in place of 10 ounces egg whites.

Variations

Creamy Tapioca With Chocolate Sauce

Serve chilled Tapioca Cream with Chocolate Sauce (page 72). Garnish with chopped nuts or shredded coconut.

Banana or Peach Fancy

Fold slices of ripe bananas or peaches, fresh or canned, drained, into cooled Tapioca Cream. Chill. Serve with Chocolate Sauce (page 72) or sirup from canned peaches.

APPLE TAPIOCA PUDDING

(Pearl tapioca)

Yield: Approx. 31/4 gallons.

Portion: Approx. 1/2 cup.

		100 P	ORTIONS	Portions
Ingredients	· WEIGHTS		AMOUNTS (approx.)	PORTIONS
Tapioca, pearl	Pounds 1	Ounces 12	1½ quarts	
Water, cold			To cover	
Water, hot			1½ gallons	
Salt		11/2	3 tablespoons	
Sugar	7		3½ quarts	
Nutmeg			1½ tablespoons	
Cinnamon			1 tablespoon	
Apples, thinly sliced	15		33/4 gallons	
Lemon juice			1 cup (4 lemons)	
Butter	1/2		1/2 pint	

Soak tapioca in cold water 6 to 8 hours or overnight.

Drain. Add hot water and salt. Cook $1\frac{1}{2}$ to 2 hours or until clear.

Combine sugar, nutmeg and cinnamon.

Arrange tapioca, apples, and sugar mixture in baking pans in alternate layers, making

apple and sugar mixture the top layer.

Add lemon juice. Dot with butter.

Bake in moderate oven (350°F.) 35 to 45 minutes or until apples are tender.

Serve hot or cold.

NOTE.—Serve plain or with cream or Hard Sauce (page 73).

Ice Cream

Ice Cream should be a "regular" on the Navy menu. In addition to being one of America's favorite desserts, ice cream is nourishing and economical.

The following directions, if carefully observed, will be helpful in producing ice cream of good quality.

Keep the freezer, utensils used in measuring the ingredients, ice cream cans and all other equipment scrupulously clean and properly sterilized.

Weigh or measure all ingredients accurately to insure uniformity, proper texture and pleasing flavor in the finished product.

Follow directions carefully.

It is important that the correct "overrun" be reached before the batch is drawn off from the freezer. The "overrun" which refers to the increase in volume, obtained by whipping air into the mix during the freezing process, may vary from 80% to 100%. An "overrun" of 100% is most commonly used in commercial practice.

A simple way to determine "overrun" is as follows: Weigh 1 cupful of the original mix.

deducting the weight of the cup. When it is determined that the proper "overrun" has been reached, weigh 1 cupful of the ice cream and again determine the net weight. If the weight of the ice cream is just 50% of the weight of the original mix, the proper "overrun" of 100% has been obtained. For example, if the cup of mix originally weighed 8 ounces, the sample taken just before the batch is drawn should weigh 4 ounces. Ice cream with too much "overrun" will melt rapidly and show many air bubbles in the melted product.

Keep the blades of the freezer sharp and properly adjusted since faulty adjustment allows a thin layer of cream to freeze along the inside wall of the freezer. This tends to insulate the batch from the refrigerant and lengthens the freezing time and decreases the "overrun."

Store the ice cream in a hardening cabinet or room at 10° F. below 0° F.

When serving, have the dispensing cabinet at 6° F. Use a "rolling" motion with the scoop. Digging or pushing the scoop into the ice cream will compress it and reduce the number of servings per gallon.

ICE CREAM

Yield: Approx. 5 gallons (2½ gallons mix with 100% overrun).

Portion: No. 12 scoop: 6 portions to 1 quart, 120 to 5 gallons; No. 16 scoop: 8 portions to 1 quart, 160 to 5 gallons.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Ice cream mix, dry	Pounds 9	Ounces		
Water, cold		- L	13/4 gallons	

Combine the mix and water. Whip together at temperature ranging from 40° F. to 70° F. in an electric mixer or with a wire whip. Cool to 40° F. before placing in freezer.

Fill freezer half full. Begin freezing at 15° F. below 0° F.

Open wide the refrigerant valve. Allow mix to freeze from 3 to 6 minutes, depending upon the temperature of the refrigerant.

Start to whip mix when hard enough to "string" across the opening in head of a per-

pendicular freezer, or when it is slightly less than the consistency for drawing in a horizontal freezer.

Turn off refrigerant. Whip mix 4 to 5 minutes, to double the volume by incorporating air. If the temperature rises above 10° F. the mix may thin out. Open refrigerant valve until mix is hard enough to draw.

When the maximum overrun is obtained, draw off immediately the thick ice cream into cans chilled in hardening cabinet to the same temperature as the ice cream when drawn.

Store in hardening cabinet at about 10° F. below 0° F.

NOTE.—1. If unflavored mix is used, dissolve 12 vanilla flavoring tablets in 1 quart of the water and add to mix with remaining water.

- 2. Ice cream softens at 12° F. to 15° F. because of the sugar content.
- 3. Temperatures of 40° F. to 70° F. are satisfactory for mixing the powder and water.
- 4. Ice cream liquid mix may be held in a refrigerator for 8 hours or longer.
- 5. Add fruits or fruit juices just before mix is drawn off. When fruits or chocolate are to be added, decrease the quantity of liquid mix by an equivalent amount.

Variations

To $2\frac{1}{2}$ gallons of mix, add the following flavors:

Apricot Ice Cream

1 No. 10 can (6 pounds 14 ounces) (31/4 quarts) apricots, mashed through a coarse sieve

1 teaspoon yellow coloring

1 teaspoon orange coloring

Banana Nut Ice Cream

4 pounds 8 ounces (12 to 16) ripe bananas, peeled and mashed

1 teaspoon yellow coloring

12 ounces (1½ pints) English walnuts or pecans, chopped or ground

NOTE.—Peel and mash bananas just before using to prevent discoloration.

Cherry Ice Cream

½ No. 10 can (3 pounds 6 ounces) (2 quarts) cherries, crushed

1 ounce strawberry-red coloring

Cherry Nut Ice Cream

1 quart cherries, crushed

1/2 ounce wild cherry extract

1/2 ounce strawberry-red coloring

12 ounces (1½ pints) nuts, chopped

Chocolate Ice Cream I

½ No. 10 can (1½ quarts) double-strength chocolate sirup

Chocolate Ice Cream II

Mix thoroughly $1\frac{1}{2}$ quarts to $\frac{3}{8}$ gallon ($1\frac{1}{8}$ to $1\frac{3}{8}$ pounds) cocoa with $2\frac{1}{2}$ quarts of the water for ice cream mix. Add with remaining water to dry ice cream mix. Freeze.

Coffee Ice Cream

Use $6\frac{1}{2}$ pints coffee brew in place of $6\frac{1}{2}$ pints water and add to dry ice cream mix.

Date Nut Ice Cream

1 pound 8 ounces (1½ pints) dates, chopped 12 ounces (1½ pints) English walnuts, chopped

Grape Ice Cream

8 ounces (1 cup) grape juice 1½ ounces (3 tablespoons) grape flavoring ½ tablespoon grape coloring

Peach Ice Cream

½ No. 10 can (3 pounds 3 ounces) (1½ quarts) peaches, mashed through a coarse sieve 2 ounces (4 tablespoons) peach extract 1 teaspoon orange coloring

Pineapple Ice Cream

2 quarts crushed pineapple

1 teaspoon lemon coloring

Pineapple Grape Ice Cream

1 quart crushed pineapple

1 quart grape juice

Pistachio Ice Cream

1 pound (1 quart) cashew nuts, ground

1 ounce (2 tablespoons) pistachio extract

1 teaspoon green coloring

Strawberry Ice Cream

 $1\frac{1}{2}$ No. 10 cans (9 pounds 15 ounces) ($1\frac{1}{4}$ gallons) strawberries

OR

5 quarts fresh or frozen strawberries, crushed

1 teaspoon strawberry-red coloring

Maple Ice Cream

Dissolve 32 maple flavoring tablets in 1 pint hot water. Add with cold water to dry ice cream mix. Freeze.

Maple Walnut or Walnut Ice Cream

1 to 2 ounces (2 to 4 tablespoons) maple flavoring

1 pound (1 quart) English walnuts
OR

2 pounds (½ gallon) black walnuts Chop or grind nuts fine. Add in the last 3 minutes of freezing.

NOTE.—1. Pecans or cashews may be used. Care must be taken to see that they are free from shells.

2. To bring out the flavor of the nuts. soak nut meats in sugar sirup about 10 hours before using.

ICE CREAM

(Using powdered whole milk and powdered eggs)

Yield: Approx. 5 gallons.

Portion: No. 12 scoop: 6 portions to 1 quart, 120 to 5 gallons; No. 16 scoop: 8 portions to 1 quart, 160 to 5 gallons.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Cornstarch	Pounds	Ounces 8	1 pint	
Sugar	5	A day	$2\frac{1}{2}$ quarts	
Salt		11/2	3 tablespoons	
Eggs, whole, powdered		11	¾ quart	
Milk, whole, powdered	4		3½ quarts	
Water, cool			31/4 gallons	
Vanilla		2	1/4 cup	

Mix together cornstarch, sugar and salt. Combine powdered eggs and milk.

Reconstitute with water the same as for powdered milk or eggs (pages 20 and 21). Stir into cornstarch mixture.

Cook over boiling water or in steam-jacketed kettle about 20 minutes, stirring occasionally.

Cool completely. Add vanilla. Freeze.

NOTE.—1. 12 vanilla tablets, reconstituted, may be used in place of vanilla.

- 2. Mixture may have curdled appearance while cooking. This will disappear in freezing.
- 3. This Ice Cream formula can be used as basis for other flavors.

SHERBETS

Yield: Approx. 5 gallons.

(Using prepared sherbet mix).

Portion: No. 12 scoop: 6 portions to 1 quart, 120 to 5 gallons; No. 16 scoop: 8 portions to 1 quart, 160 to 5 gallons.

Mix ingredients and freeze in the same manner as ice cream. It may be necessary to freeze for 8 minutes before shutting off the refrigerant.

Lemon Sherbet

2 pounds lemon sherbet mix 10 pounds (1½ gallons) sugar 25 pounds (12½ quarts) water

Lemon and Grape Sherbet

2 pounds lemon sherbet mix 10 pounds (1½ gallons) sugar 23 pounds (1½ quarts) water 3 pounds (1½ quarts) grape juice

Lemon and Raspberry Sherbet

2 pounds lemon sherbet mix 10 pounds (11/4 gallons) sugar 25 pounds (121/2 quarts) water

 $\frac{1}{2}$ No. 10 can (approx. $1\frac{1}{2}$ quarts) raspberry puree

Orange Sherbet

2 pounds 8 ounces orange sherbet mix

9 pounds (1 gallon) sugar

21 pounds (10½ quarts) water

Lemon and Strawberry Sherbet

2 pounds lemon sherbet mix

4 pounds 4 ounces (1/2 gallon) sugar

21 pounds (10½ quarts) water

1 No. 10 can (6 pound 10 ounce) (3½ quarts) strawberries

OR

3 quarts frozen strawberries

Orange and Apricot Sherbet

2 pounds 8 ounces orange sherbet mix

9 pounds (1 gallon) sugar

21 pounds (10½ quarts) water

1 No. 10 can (6 pound 10 ounce) (3½ quarts) apricots, unsweetened, crushed

Orange and Pineapple Sherbet

2 pounds 8 ounces orange sherbet mix

9 pounds (1 gallon) sugar

21 pounds ($10\frac{1}{2}$ quarts) water

 $\frac{1}{2}$ No. 10 can (3 pounds 5 ounces) ($1\frac{1}{2}$ quarts) crushed pineapple

Dessert Sauces

BUTTERSCOTCH SAUCE

Yield: Approx. 1½ gallons.

Portion: Approx. 4 tablespoons (2 ounces).

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Sugar, brown	Pounds 10	Ounces 	71 <u>3</u> quarts	
Water			1 quart	
Sirup, corn	3	•	1 quart	
Butter		8	1 cup	
Milk, evaporated	4	8	5 No. 1 tall (14½ oz.) cans (½ gallon).	

Combine sugar, water and syrup. Cook to temperature of 234°F, or until a few drops form a soft ball when dropped into cold water.

Remove from heat. Cool to 180°F. to prevent curdling.

Add butter and milk slowly, stirring constantly. Beat until thick.

Cool completely before serving.

Note.—Serve on Baked Custard (page 57) or Ice Cream (page 68).

CHOCOLATE SAUCE

Yield: Approx. 11/2 gallons.

Portion: Approx. 4 tablespoons (2 ounces).

		100 P	ORTIONS
Ingredients	Weights		Amounts (approx.)
Sugar	Pounds 6	Ounces 	3/4 gallon
Cocoa	1	8	13/4 quarts
Water			1½ pints
Sirup, corn	1	. 6	1 pint
Milk, evaporated	7	4	8 No. 1 tall $(14\frac{1}{2} \text{ oz.})$ cans $(3\frac{1}{3} \text{ quarts})$.
Vanilla		11/2	3 tablespoons

Mix together sugar and cocoa. Stir in water and corn sirup.

Cook to temperature of 234°F. or until a few drops form a soft ball when dropped into cold water.

Remove from heat. Combine milk and vanilla and stir into cocoa mixture, gradually.

Note.—Serve warm or cold on ice cream, custards or rice.

Variation

Chocolate Mint Sauce

Add ½ teaspoon essence of peppermint when sauce has completely cooled.

CUSTARD SAUCE

Yield: Approx. 1½ gallons.

Portion: Approx. 4 tablespoons (2 ounces).

		100 P		
Ingredients	WE	IGHTS	AMOUNTS (approx.)	PORTIONS
Milk, liquid	Pounds	Ounces 	1½ gallons	
Cornstarch		3	9 tablespoons	
Sugar	1	8	1½ pints	
Salt		1/4	½ tablespoon	
Eggs, slightly beaten	1	8	15 (1½ pints)	
Vanilla		1	2 tablespoons	

Heat milk to boiling temperature.

Mix together thoroughly cornstarch, sugar and salt. Add to hot milk, stirring constantly. Cook 30 minutes, stirring frequently.

Stir in eggs rapidly. Cook 1 minute longer.

Remove from heat and cool to 160°F. Stir in vanilla.

Note.—4 ounces powdered eggs and 1½ cups cold water may be used in place of 1 pound eggs.

Yield: 6 pounds.

Portion: 1 ounce (approx. $1\frac{1}{2}$ to 2 tablespoons).

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Butter, softened	Pounds 2	Ounces 	1 quart	
Sugar, confectioner's, sifted	4		2½ quarts	
Vanilla		2	1/4 cup	

Beat butter until creamy. Add sugar and vanilla gradually.

Whip until smooth.

Pack in waxed paper-lined bread tins or square molds.

Chill in refrigerator until firm.

Lift from pans. Slice.

NOTE.—1. Serve with hot or cold steamed pudding, Baked Apples (page 86), Dutch Apple Pie (page 404) or Mince Pie (page 408).

2. Hard Sauce may be served without chilling until firm.

LEMON SAUCE

Yield: Approx. 11/2 gallons.

Portion: Approx. 4 tablespoons (2 ounces).

		100 P	ORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Sugar	Pounds 4	Ounces 4	½ gallon
Cornstarch		8	3/4 pint
Salt	••••	•	½ teaspoon
Nutmeg		****	½ teaspoon
Water, boiling			4½ quarts
Butter		8	1 cup
Lemon rind, grated			1½ tablespoons
Lemon juice			1½ cups

Combine sugar, cornstarch, salt and nutmeg. Stir into water slowly.

Heat to boiling temperature. Cook about 5 minutes or until thickened, stirring constantly.

Stir in butter, lemon rind and juice.

Reheat to boiling temperature.

Note.—An excellent sauce for vanilla pudding, fruit fritters and left-over cake.

Variations

Cherry Sauce

Use cherry juice in place of water.

Fruit Sauce

Use fruit juice in place of water. Add crushed fruit, if desired.

ORANGE SAUCE

Yield: Approx. 11/2 gallons.

Portion: Approx. 4 tablespoons (2 ounces).

		. 100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Sugar	Pounds 4	Ounces 6	21/4 quarts	
Cornstarch	•-••	7	11/3 cups	
Salt		Ţ	3/4 teaspoon	
Cinnamon			3/4 teaspoon	
Water, boiling			1 gallon	
Butter	1	4	2½ cups	
Orange rind, grated	7 7 "	21/2	10 tablespoons	
Orange juice		(C1	2½ pints	
Lemon juice	••••		(1½ lemons)	

Combine sugar, cornstarch, salt and cinnamon. Stir into water slowly.

Heat to boiling temperature. Cook about 5 minutes or until thickened, stirring constantly.

Stir in butter, orange rind, orange juice and

lemon juice. Reheat to boiling temperature.

NOTE.—A very desirable and popular sauce for cornstarch and rice puddings, fruit fritters and left-over cake.

PINEAPPLE SAUCE

Yield: Approx. 11/2 gallons.

Portion: Approx. 4 tablespoons (2 ounces).

Lyonnania		100 P	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Cornstarch	Pounds	Ounces 5	1 cup	
Sugar (variable, depending upon sweetness of the fruits).	2	4	4½ cups	
Pineapple, crushed, and juice, or other fruits.	10		1½ gallons	

Mix together cornstarch and sugar. Stir into crushed pineapple.

Cook until clear.

Note.—Ginger may be added to the sauce for extra zest. Add approximately 1 tablespoon of powdered ginger with the cornstarch and sugar.

WHIPPED EVAPORATED MILK TOPPING

Yield: Approx. 21/4 quarts.

Portion: Approx. 11/2 tablespoons.

METHOD I

		100 F			
Ingredients	WEIGHTS		AMOUNTS (approx.)) Portions	
Milk, evaporated	Pounds 1	Ounces 13	2 No. 1 tall (14½ oz.) cans (3½ cups). 3 tablespoons		
Sugar, powdered		3	6 tablespoons		
Vanilla		1	2 tablespoons		

Heat milk to boiling temperature. Do not boil. Add gelatin to milk. Stir until dissolved. Chill until icy cold.

Whip quickly, with cold beater, until stiff.

Fold sugar and vanilla into whipped milk.

Serve immediately on desserts, salads or beverages.

METHOD II

		100 F			
Ingredients	WEIGHTS		A MOUNTS (approx.)	PORTIONS	
Milk, evaporated, icy cold Sugar	Pounds 1	Ounces 13	2 No. 1 tall (14½ oz.) cans (3⅓ cups). 6 tablespoons		
Lemon juice			6 tablespoons(1 lemon)		

Combine milk and sugar.

Whip until fluffy with cold beater.

Add lemon juice. Continue whipping until stiff.

NOTE.—1. Evaporated milk, beater and container in which milk is to be whipped should be

thoroughly chilled to give best results in whipping.

- 2. Whip milk as quickly as possible and in a small amount at a time.
 - 3. Use whipped milk immediately.
- 4. Evaporated milk, when whipped, triples in volume.

MAPLE FLAVOR

(Using maple flavoring tablets)

Yield: 1 pint.

INGREDIENTS		100 P	Portions	
INGREDIENTS	WEIGHTS			AMOUNTS (approx.)
Flavoring tablets, maple	Pounds	Ounces 	4	
Water, boiling			1 pint	

Add tablets to water. Stir until dissolved. Cool before using.

Note.—1. Maple flavor can be used "to taste" in baking and other foods.

2. For cream type icing 1 teaspoon of maple flavor per pound of icing gives a pleasing flavor.

VANILLA FLAVOR

(Using vanilla tablets, imitation)

1 vanilla tablet, imitation, is equivalent to 1 teaspoon liquid vanilla flavor.

6 vanilla tablets, imitation, are equivalent to 1 fluid ounce (2 tablespoons) vanilla flavor.

Dissolve the required number of tablets specified in the liquid portion of the recipe.

MAPLE SIRUP

Yield: Approx. 2 gallons.

Portion: 1/4 cup (approx. 2 ounces).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Flavoring tablets, maple	Pounds	Ounces 	16	
Water, boiling			1 gallon	
Sugar, granulated	12		1½ gallons	
Sugar, brown	4		3/4 gallon	

Dissolve tablets in boiling water.

Add sugars. Heat to boiling temperature, stirring to dissolve sugars. Cool before using.

Note.—4 pounds (¾ gallon) granulated sugar may be used in place of 4 pounds (¾ gallon) brown sugar.

VANILLA SAUCE

Yield: Approx. 11/2 gallons.

Portion: Approx. 4 tablespoons (2 ounces).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Sugar	Pounds 2	Ounces 4	4½ cups	
Cornstarch		4	3/4 cup	
Salt			½ teaspoon	
Water, boiling		****	11/4 gallons	
Butter, melted	1	****	1 pint	
Vanilla		3	6 tablespoons	

Mix together sugar, cornstarch and salt. Stir into water until mixture is smooth.

Heat to boiling temperature. Cook 3 to 4

minutes or until thickened.

Stir in butter and vanilla. Chill.

Note.—Serve with custards.

Eggs

Eggs are valuable not only for their excellent protein but for their contribution of vitamins and minerals, especially iron, calcium and phosphorous.

Because of their high nutritive value and ease in preparation and cooking, the Navy menu should be planned to include the equivalent of 1 egg per man per day.

Eggs may be prepared in various delicious ways and served as the main dish of the meal or used as an ingredient in sauces, salads, meat loaves and desserts.

SOFT-COOKED EGGS

Place eggs in cooking vessel.

Cover completely with boiling water.

Cook 3 to 5 minutes, according to desired degree of firmness.

Drain. Serve immediately.

HARD-COOKED EGGS

Place eggs in cooking vessel.

Cover completely with boiling water.

Heat to boiling temperature.

Cook 10 to 12 minutes. Drain.

STEAMER-COOKING OF EGGS

Place eggs in steamer trays. Close steamer. Turn on steam full.

Steam 3 to 5 minutes for soft-cooked eggs and 15 minutes for hard-cooked eggs.

Remove from steamer. Serve immediately.

Note.—To cool eggs quickly, plunge in cold water.

POACHED EGGS

Grease skillet. Fill with boiling water.

Add 1 teaspoon salt and 1 tablespoon vinegar to each quart of water.

Break eggs, carefully, into a cup. Slip into water.

Add only enough eggs to float easily in water. Cover skillet. Let eggs simmer slowly.

Cook about 3 to 5 minutes or until whites are set and yolks are covered with white film.

Lift out with perforated skimmer.

Note.—Serve on toast, plain or with Tomato Sauce (page 218), on spinach, or on Beef Hash (page 150) or Corned Beef Hash (page 150).

FRIED EGGS

Portion: 2 eggs.

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Bacon or other fat	Pounds 1	Ounces 	1 pint	
Eggs, whole	20		200	
Salt and pepper			To taste	4

Heat fat on fry top range or in frying pans. Break two eggs at a time into cup or bowl and slip onto fry top. Cook until whites are done.

Lift from fry top into flat steam table pans. Serve immediately.

Portion: Approx. 5 ounces.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Eggs, whole, slightly beaten	Pounds 15	Ounces	150 eggs (2 gallons)	
Salt		3	6 tablespoons	
Pepper		1/4	3/4 tablespoon	
Milk, liquid			3/4 gallon	
Butter or other fat, melted	2	8	1½ quarts	

Combine eggs, salt, pepper and milk.

Heat fat on fry top range or in frying pans. Add egg mixture.

Cook slowly, stirring constantly until soft but firm.

NOTE.—Remove eggs from heat before completely cooked. Cooking continues for few minutes after removal.

Variations

Steam Table Method

Place uncooked egg mixture into hot steam table pans 15 minutes before serving.

Set pans in steam table. Stir frequently while eggs are cooking.

Oven Method

Place uncooked egg mixture into baking pans.

Bake in slow oven (325° F.) about 15 to 20 minutes. Stir every 4 to 5 minutes until eggs are properly coagulated.

Remove from oven while eggs are still soft. Eggs will continue to cook slightly after removal from oven.

SHIRRED EGGS

Portion: 2 eggs.

		100 P	Donne	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Eggs, whole	Pounds 20	Ounces 	200	
Butter or other fat, melted	1		1 pint	
Salt		11/2	3 tablespoons	
Pepper			1 teaspoon	

Break eggs whole and place in greased baking or muffin pans.

Pour fat over eggs. Sprinkle with salt and pepper.

Bake in moderate oven (350° F.) about 10 minutes, or until whites are firm.

Variation

Shirred Eggs with Bacon

Place cooked, diced bacon in bottom of pans before dropping in the eggs.

SCRAMBLED EGGS

(Using powdered eggs)

Portion: Approx. 1/2 cup.

		100 P	PORTIONS
Ingredients	WEIG	GHTS	Amounts (approx.)
Eggs, whole, powdered	Pounds 6	Ounces 	2 gallons
Water, cool	****		$2\frac{1}{2}$ gallons
Salt	••••	3	6 tablespoons
Pepper			1 tablespoon
Fat, melted	3		1½ quarts

Stir powdered eggs into 1½ gallons water. Stir vigorously with whip to prevent lumping until a perfectly smooth mixture is obtained.

Add remaining water, salt and pepper. Stir until mixture is smooth. Let stand about 20 minutes.

Pour fat into frying pans or roasting pans. Heat fat. Add eggs.

Cook, slowly, over *low* heat until eggs are properly coagulated, stirring occasionally.

Remove from heat while eggs are still soft. Eggs will continue to cook slightly after removal from heat.

NOTE.—1. It is desirable to prepare 25 portions of Scrambled Eggs at one time. However, if care is taken and directions carefully followed, 100 portions can be prepared satisfactorily at one time.

- 2. Do not prepare Scrambled Eggs more than 10 minutes before serving. Eggs toughen upon standing.
- 3. Powdered eggs need to be carefully reconstituted. Always use *cool* water for reconstituting.
- 4. Powdered eggs are highly perishable after water has been added and should not stand longer than 1 hour after reconstitution.
- 5. The flavor of Scrambled Eggs made from powdered eggs can be greatly improved by the addition of diced, cooked bacon or ham, sausage, luncheon meat or cheese.

Variations

Scrambled Eggs and Diced Bacon

12 pounds bacon, diced, cooked until crisp and brown, may be added to eggs before cooking. Use fat from cooked bacon for cooking eggs.

Scrambled Eggs and Ham

12 pounds cooked ham, diced, may be added to eggs before cooking.

Scrambled Eggs and Luncheon Meat

12 pounds luncheon meat, diced, may be added when eggs are partially cooked. Continue cooking until eggs are properly coagulated. Stir occasionally.

Scrambled Eggs and Pork Sausage

16 pounds pork sausage, cooked, diced, may be added to eggs when eggs are partially cooked. Continue cooking until eggs are properly coagulated. Stir occasionally. Use fat from cooked sausage for cooking eggs.

Scrambled Eggs and Cheese

8 pounds (7 quarts) American cheddar cheese, diced, may be added to eggs when eggs are partially cooked. Continue cooking until eggs are properly coagulated. Stir occasionally.

Yield: Approx. 5 gallons.

Portion: 1 cup (approx. 8 ounces).

Tarana		100 H		
Ingredients	WE	IGHTS	AMOUNTS (approx.)	- Portions
Milk, liquid	Pounds	Ounces 	3 gallons	
Butter or other fat, melted	3		1½ quarts	
Flour	1	8	1½ quarts	
Salt		3	6 tablespoons	
Pepper			1 teaspoon	
Eggs, hard-cooked, quartered			96 (1½ gallons)	

Heat milk to boiling temperature.

Blend together fat, flour, salt and pepper to smooth paste.

Stir into milk. Heat to boiling temperature. Cook, stirring constantly, until thickened.

Pour sauce over eggs. Mix lightly.

Note.—Serve on toast or cooked rice.

Variation

Creamed Ham and Eggs

10 pounds ham, cooked, cubed may be used in place of 50 eggs.

OMELET

Portion: Approx. 4 ounces.

		100 P			
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions	
Eggs, whole	Pounds 19	Ounces	192 (2¾ gallons)		
Flour		10	2½ cups		
Salt	<u></u> 17	11/2	3 tablespoons	•	
Pepper			1 teaspoon		
Milk, liquid	****		11/4 quarts		
Butter or other fat, melted	1		1 pint		

Separate eggs. Beat yolks until light.

Beat whites until stiff, but not dry.

Stir flour, salt and pepper into yolks. Mix until smooth. Stir in milk.

Fold yolk mixture lightly but thoroughly into whites.

Heat fat bubbling hot in large frying or omelet pans. Pour in egg mixture.

Cover. Cook slowly over low heat about 20

minutes or until bottom of omelet is well browned.

Uncover. Place in moderate oven (350° F.) to dry top.

Remove from oven. Fold omelet with spatula. Slide onto hot serving pans. Serve immediately.

Note.—May be served with Creole Sauce (page 213).

FRENCH TOAST

Portion: 2 slices

Lycopporate		100 I	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Eggs, beaten lightly	Pounds 3	Ounces 9	36 (3½ pints)	
Milk, liquid			3/4 gallon	
Salt		1	2 tablespoons	
Sugar		10	1½ cups	
Bread, day old			200 slices	

Mix together eggs, milk, salt and sugar, until sugar is dissolved.

Dip slices of bread into egg mixture. Let stand 2 to 3 minutes. Coat each slice thoroughly.

Fry on hot, greased griddle or in hot, deep fat at 360° F. for 2 to 3 minutes or until browned.

NOTE.—1. Serve with maple sirup, jam, jelly, confectioners' or granulated sugar.

2. 14 ounces powdered eggs and 2 pounds 12 ounces ($1\frac{3}{8}$ quarts) water may be used in place of 3 pounds 9 ounces eggs.

Fruits

Fruits should appear frequently on the menu as they furnish important food essentials and also add variety, color and refreshing flavor to the meal.

Fruits are supplied to the Navy in the fresh state or as quick-frozen, canned and dried.

They fit into all three main meals of the day. They can be served at breakfast alone or in combination with cereal. For dinner or supper they may be used as a first course or as a salad or dessert.

Fresh and canned fruits may be combined to vary flavor and texture.

Fruit compotes, made of a combination of two or three cooked fruits, make a pleasing light dessert for the main meal of the day.

Fruit juices may be served as a first course at breakfast or in place of soup or as the main beverage of the dinner or supper meal.

Discoloration and How to Prevent It

Certain fruits, when peeled and cut, will discolor readily when exposed to air even for a very short time, unless the cut surfaces are protected from direct contact with the air.

Discoloration in apples and pears can be avoided by placing the cut pieces in a solution of salt and water for a very few minutes just before using, allowing 1 teaspoon of salt to 1

quart of cold water. Discoloration in avocados, bananas and peaches can best be retarded by dipping the cut pieces into, or sprinkling them with fresh or canned grapefruit juice, lemon or orange juice or canned pineapple juice. These fruits should not be peeled or cut until time to use them. Fully ripe fruit does not discolor as rapidly as under-ripe fruit.

Storage

Fruit is a perishable product and careful consideration should be given to storage. Some fruits require different temperatures and lengths of time for storage than others.

Since fruit is at its best for flavor, texture and digestibility when fully ripe, it should be served when ripe and care should be taken in meal planning to use the fruit on hand which ripens first.

To Fully Ripen Bananas

To obtain *fully ripe* bananas, the greentipped or the all-yellow fruit should be held at room temperature, 68° F. to 70° F., until the peels are well flecked with brown.

In fully ripe bananas the starch has been converted into fruit sugars. Bananas are then at their best for flavor and digestibility and for use in fruit cups, salads, drinks, desserts, pies and all bakery products.

FRESH FRUIT GUIDE

	1		
FRUIT	SEASON	APPROXIMATE WEIGHT	Units
Apples	May to August	44-lb. box or bushel 25-lb. lug 13-lb. crate 65-lb. stems or 40-lb. box	138 medium per box. 312 per lug. 16 medium per crate. 9 hands or 145 fingers on stem. 8 hands or 110 fingers in box.
Berries: Blackberries	May, June, July	Pint and quart boxes in crates.	6 servings per quart.
Blueberries	May to August	½ pint, pint and quart boxes in crates.	9 to 10 servings per quart.
Raspberries (Red and Black).	May to August	½ pint, pint and quart boxes in crates.	8 to 10 servings per quart.
Strawberries	December to July	Pint and quart boxes in crates.	5 to 8 servings per quart.
Cherries (sweet)	May to July	15-lb. box	Portions determined by use.
Cranberries	September to January	25-lb. box	Portions determined by use.
Figs	June to August	10-lb. box	40 per box.
Grapefruit		68- to 85-lb. box	36 to 126 per box.
Grapes	June to January	Climax basket or 28-lb.	Portions determined by use.
Lemons	All year	lug. 78-lb. box	360 medium per box.
Cantaloupe or Honeyball.		83-lb. crate	36 average size per crate 2 servings per melon.
Casaba or Persian	July to November	42-lb. crate	6 average size per crate.
Honeydew	June to December	40-lb. crate	8 servings per melon. 8 to 9 melons per crate.
Watermelon	May to October	18 to 40 lbs. each	6 to 8 servings per melon. 15 to 20 servings per
Oranges	All year	76- to 90-lb. box	melon. 96 to 324 per box. 4 gallons ivide
Peaches	June to October	Bushel basket or 18-lb.	lons juice. Portions determined by
Pears	July to April	46-lb. box	use. 120 medium per box.
Pineapple	All year	70-lb. crate	12 to 36 per crate.
Plums and Prunes	June to October	$\frac{1}{2}$ bushel, 28-lb. crate	208 average size per crate.
Rhubarb	All year	15- to 20-lb. box or 5-lb.	Portions determined by
Tangerines	November to May	carton. Half box	use. 200 average size per box.

CANNED FRUIT GUIDE Weights and Yields of Canned Fruits

PRODUCT—TYPE—STYLE	SIZE OF CAN	NET WEIGHT PER CAN	APPROX. COUNT PER CAN	Size of Portion	AVERAGE PORTIONS PER CAN	APPROX. No. CANS FOR 100 PORTIONS
Apples, heavy pack	No. 2 No. 10	1 lb. 2 ozs. 6 lbs.				
Applesauce	No. 2 No. 10	1 lb. 4 ozs. 6 lbs. 11 ozs.		4 ozs. 4 ozs.	5 27	20
Apricots, halves	No. 2½ No. 10	1 lb. 14 ozs. 6 lbs. 12 ozs.	18 to 24 84	3 halves 3 halves	7 28	15 3½
Blackberries	No. 2 No. 10	1 lb. 4 ozs. 6 lbs. 10 ozs.		4 ozs. 4 ozs.	5 26	20 4
Cherries—Red Sour Pitted	No. 2 No. 10	1 lb. 3 ozs. 6 lbs. 11 ozs.				
Cranberry Sauce	No. 10	7 lbs. 5 ozs.		3 ozs.	39	21/2
Figs	No. 2½ No. 10	1 lb. 14 ozs. 7 lbs.	18 100	3 figs 3 figs	6 35	16 3
Fruit Cocktail	No. 2½ No. 10	1 lb. 14 ozs. 6 lbs. 12 ozs.		4 ozs. 4 ozs.	7 27	15 4
Fruits for Salad	No. 2½ No. 10	1 lb. 14 ozs. 6 lbs. 12 ozs.		4 ozs. 4 ozs.	7 27	15 4
Grapefruit	No. 2 No. 10	1 lb. 4 ozs. 6 lbs. 9 ozs.		4 ozs. 4 ozs.	4 26	25 4
Grapefruit Juice	No. 2 No. 10	18 ozs. 3 quarts		5 ozs. 5 ozs.	3 18	35 5½
Orange Juice	No. 2 No. 10	18 ozs. 3 quarts		5 ozs. 5 ozs.	3 18	$35 \\ 5\frac{1}{2}$
Peaches, Clingstone	No. 2½ No. 10	1 lb. 14 ozs. 6 lbs. 14 ozs.	10 66	2 halves 2 halves	5 33	20
Peaches, Freestone, halves	No. 2½ No. 10	1 lb. 14 ozs. 6 lbs. 14 ozs.	10 50	2 halves 2 halves	4 25	25 4
Pears, halves	No. 2½ No. 10	1 lb. 14 ozs. 6 lbs. 12 ozs.	8 28	1 half 1 half	8 28	12½ 3½
Pineapple, sliced	No. 2½ No. 10	1 lb. 14 ozs. 6 lbs. 12 ozs.	8 28	1 slice 1 slice	8 28	12½ 3½
Pineapple, crushed	No. 2½ No. 10	1 lb. 14 ozs. 6 lbs. 14 ozs.		4 ozs. 4 ozs.	7 28	15 3½
Pineapple Juice	No. 2 No. 10	18 ozs. 3 qts. 2 ozs.		5 ozs. 5 ozs.	3 18	35 5½
Plums, whole	No. 10	6 lbs. 14 ozs.	38	2 plums	19	5
Prunes, prepared	No. 2 No. 10	1 lb. 14 ozs. 6 lbs. 14 ozs.	30 185	5 prunes 5 prunes	6 35	17 3
Raspberries	No. 2 No. 10	1 lb. 5 ozs. 6 lbs. 14 ozs.		4 ozs. 4 ozs.	5 28	20 31/2

DIRECTIONS FOR COOKING DRIED FRUITS

100 Portions

Portion: 3 ounces.

FRU	IT	WATER	V 777V07	SUGAR	
	WEIGHT (POUNDS)	AMOUNT (APPROX.)	METHOD	AMOUNT (APPROXIMATE)	
Apples	9	To cover	Heat to boiling temperature. Cook 40 minutes.	None needed. Add 1 ounce to each pound of apples, if desired.	
Apricots	9	To cover	Heat to boiling temperature. Cook 30 to 40 minutes.	Allow 2 ounces to each pound of apricots.	
Figs	9	To cover	Heat to boiling temperature.	Allow 1 ounce to each pound of	
			Cook 20 to 30 minutes.	figs. Add during last 15 minutes of cooking.	
Peaches	9	To cover	Heat to boiling temperature.	Allow 1 ounce to each pound of	
		_	Cook 35 to 45 minutes.	peaches.	
Pears	8	To cover	Heat to boiling temperature.	Allow 1 ounce to each pound of	
			Cook 25 to 35 minutes.	pears.	
Prunes	11	To cover	Heat to boiling temperature.	None needed. Add 2 ounces to	
			Cook 45 to 60 minutes.	each pound of prunes, if desired.	

Rinse fruit. Drain before adding cooking water. Cook in covered vessel.

Stir in sugar only during last 5 minutes of cooking.

NOTE.—1. Remove cores in apples and pears before cooking.

2. Excellent for use in cakes, cookies, pies and puddings.

APPLESAUCE

Portion: 4 to 5 ounces (approx. $\frac{2}{3}$ cup).

		100 F			
Ingredients	WE	IGHTS	Amounts (approx.)	Portions	
Apples, fresh, A. P.	Pounds 48	Ounces 			
Water	****		Small amount		
Sugar	6		3/4 gallon		
Lemon juice	••••		3/4 cup (3 lemons)		

Wash and core apples. Cut in quarters.

Place in cooking vessel. Add enough water to prevent sticking.

Cook 45 to 60 minutes or until tender. Press through fine sieve.

Stir in sugar and lemon juice.

NOTE.—Apples may be peeled, cooked, and mashed or pressed through fine sieve.

Variation

Spiced Applesauce

Add $\frac{3}{4}$ ounce (3 tablespoons) cinnamon and $\frac{1}{2}$ ounce (2 tablespoons) ground cloves to hot applesauce.

APPLESAUCE

(Using dehydrated apple nuggets)

Portion: Approx. 4 ounces (approx. ½ cup).

		100 P	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Apple nuggets, dehydrated	Pounds 3	Ounces 8	1¼ gallons	
Water, hot	****		3½ gallons	
Sugar	2	8	11/4 quarts	
Cinnamon		1/2	2 tablespoons	

Mix together apple nuggets, water and sugar. Cover. Heat, slowly, to boiling temperature, stirring occasionally.

Let simmer 1 hour, stirring occasionally. Stir in cinnamon.

Note.—1. Nutmeg may be used in place of cinnamon, or spices may be omitted.

2. A better product is obtained by continuous stirring during the cooking period.

Variation

Stewed Apples

Proceed as for Applesauce but cook for 30 minutes instead of 1 hour.

BAKED APPLES

Portion: 1 apple.

		100 P	ORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Apples, size 100, A. P.	Pounds 	Ounces 	100
Sugar	7	••••	3/4 gallon
Salt	••••		2 teaspoons
Cinnamon	H		2 teaspoons
Water			2½ quarts

Wash and core apples. Place in baking pans.

Stir sugar, salt and cinnamon into water until sugar is dissolved. Pour over apples.

Bake in moderate oven (350° F.) 1 to $1\frac{1}{2}$ hours.

Baste with sirup several times during cooking. Add more water if necessary.

Note.—1. Serve with Hard Sauce (page 73).

2. Cover if apples begin to brown before being thoroughly done.

Variation

Stuffed Baked Apples

Before baking, stuff apples with a mixture of 2 pounds 12 ounces (½ gallon) chopped dates and 1 pound 8 ounces (½ quarts) chopped nut meats.

BUTTERED APPLES

Portion: Approx. 5 ounces (approx. 3/4 cup).

		100 P	Portions	
Ingredients	WEIGHTS		AMOUNTS (approx.)	I ORTIONS
Apples, A. P.	Pounds 20	Ounces		
Water			11/4 quarts	
Butter, melted	1	4	2½ cups	
Sugar	3	4	6½ cups	
Salt		2	1/4 cup	

Wash apples. Cut into sections and remove cores. Arrange sections in baking pans. Cover bottom of pans with water.

Brush apples with butter. Sprinkle with sugar and salt. Cover.

Bake in moderate oven (350° F.) 20 minutes.

Remove cover.

Increase temperature of oven to 400° F. Continue baking about 15 minutes or until apples are tender and lightly browned.

Add more water as it evaporates.

NOTE.—Serve with pork or as a dessert.

ESCALLOPED APPLES

Portion: 4 to 5 ounces (approx. \(\frac{2}{3} \) cup).

		100 P		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Apples, A. P.	Pounds 30	Ounces 		
Sugar, brown	1	4	3¾ cups	
Nutmeg		1/2	13/4 tablespoons	
Salt		1/2	1 tablespoon	
Butter, melted	2		1 quart	
Bread crumbs, soft	2	12	1½ gallons	
Lemon juice		••••	1 pint (8 lemons)	
Water or fruit juice			1½ gallons	

Wash apples. Cut into wedges. Core and peel. Mix together sugar, nutmeg, salt, butter and crumbs.

Cover bottoms of greased baking pans with layer of crumbs.

Place apples and crumb mixture in alternate

layers with bread crumb layer on top.

Combine lemon juice and water or fruit juice. Pour over apples.

Bake in moderate oven (350° F.) $1\frac{1}{4}$ to $1\frac{1}{2}$ hours.

NOTE.—Serve with meats or as a dessert.

BAKED APPLE RINGS

Portion: 4 rings. (approx. 4½ ounces).

Licenspanies		100 P		
Ingredients	WE	GHTS	AMOUNTS (approx.)	Portions
Apples, medium-sized, A. P	Pounds 35	Ounces 		
Butter or other fat, melted	1	8	1½ pints	
Sugar, brown	2	8	13/4 quarts	
Water, boiling			1 pint	

Wash and core apples. Slice in rings $\frac{1}{2}$ inch thick. Arrange, slightly overlapping, in greased baking pans.

Stir fat and sugar into water until sugar is dissolved. Pour over apples.

Bake in moderate oven (350° F.) 30 to 40 minutes or until tender. Baste apples with sirup occasionally.

Note.—Serve with meats.

BAKED BANANAS

Portion: 1 whole or 2 half bananas.

		100 F	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Bananas, firm	Pounds 25 to 30	Ounces	100	
Butter, melted	1	4	2½ cups	
Salt			As desired	

Peel bananas. Place in well greased baking pans. Brush well with butter. Sprinkle lightly with salt.

Bake in moderate oven (375° F.) 15 to 18 minutes or until tender.

NOTE.—1. Serve very hot as vegetable, or as dessert with Custard Sauce (page 72) or Lemon Sauce (page 73).

- 2. Test for doneness of bananas by piercing with fork.
- 3. Bananas may be baked until almost done, then placed in broiler to brown.

Variations

Bananas Baked with Maple Sirup

Brush bananas with lemon juice. Pour sirup over bananas, allowing 3/4 to 1 cup for every 6 bananas. Bake as for Baked Bananas.

Serve hot as a sweet entree with beef or ham or with cream as a hot dessert.

Bananas Baked with Sugar (Glazed)

Sprinkle white or brown sugar lightly over bananas. Add cinnamon if desired. Bake as for Baked Bananas.

Serve hot as an entree with beef, ham, chicken or turkey.

Bananas Baked with Cranberries

Pour cranberry sauce over bananas allowing 1 cup for every 6 bananas. Bake as for Baked Bananas.

Serve hot with beef, chicken or turkey.

Bananas Baked with Jelly or Jam

Spread tart jelly or jam over bananas allowing 1 to 2 tablespoons for each banana.

Bake as for Baked Bananas. Serve hot as a sweet entree or as a dessert.

Yield: 200 medium sized.

Portion: 2 fritters.

		100 P	Portions	
Ingredients	WE	IGHTS	Amounts (approx.)	PORTIONS
Flour	Pounds 4	Ounces 4	41/4 quarts	
Baking powder		4	10 tablespoons	
Salt	·	4	½ cup	
Sugar	1	12	3½ cups	
Eggs, beaten	1	4	12 (1½ pints)	
Milk, liquid			13/4 quarts	
Shortening, melted		6	³ / ₄ cup	
Bananas, firm	15 to 20		50 to 65	
Flour for rolling	1		1 quart	

Mix together flour, baking powder, salt and sugar.

Combine eggs, milk and shortening. Stir into dry ingredients until batter is smooth.

Peel bananas. Cut each into 3 or 4 diagonal pieces. Roll in flour.

Dip into batter, completely coating banana with batter.

Fry in hot deep fat (375° F.) 4 to 6 minutes, turning frequently to brown evenly.

Drain 1 or 2 minutes on absorbent paper. Serve immediately.

NOTE.—Serve very hot with sugar, sugar and cinnamon, sirup, Lemon Sauce (page 73) or Orange Sauce (page 74).

APPLE CRANBERRY SAUCE

(Using dehydrated apple nuggets and dehydrated cranberries)

Yield: Approx. 2 gallons.

Portion: Approx. 1/4 cup.

		100 P	D	
Ingredients	WE	IGHTS	Amounts (approx.)	Portions
Apple nuggets, dehydrated	Pounds 1	Ounces 	½ gallon	
Cranberries, flaked, dehy-drated.		9	21/4 pints	
Water, hot		••••	1½ gallons	
Sugar	4		½ gallon	

Soak apple nuggets and cranberries in water 30 minutes.

Add sugar. Cover. Heat, slowly, to boiling

temperature. Let simmer 30 minutes, stirring occasionally. Cool.

CRANBERRY AND ORANGE RELISH

Yield: Approx. 13 pounds.

Portion: 2 ounces (approx. 1/4 cup).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Cranberries, A. P.	Pounds 5	Ounces	1½ gallons	
Oranges	5		10 whole	
Sugar	5		2½ quarts	
Salt			½ teaspoon	

Pick-over cranberries. Wash. Drain.

Quarter oranges. Remove seeds. Combine cranberries and oranges. Chop fine.

Stir in sugar and salt until dissolved. Chill.

Note.—1 pound ($1\frac{1}{2}$ pints) raisins, chopped, may be added.

CRANBERRY SAUCE

Yield: Approx. 2 gallons.

Portion: 2 ounces (approx. 1/4 cup).

		100 P	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Cranberries, A. P.	Pounds 5	Ounces 	11/4 gallons	
Sugar	5		2½ quarts	*
Water			2½ quarts	

Pick-over cranberries. Wash. Drain.

Combine sugar and water. Heat to boiling temperature. Cook 5 minutes.

Add cranberries. Cook slowly about 5 minutes or until all the skins pop open. Do not stir.

Pour into container. Cool.

Variation

Molded Strained Cranberry Sauce

Pick-over cranberries. Wash. Drain. Add water.

Heat to boiling temperature. Cook until all the skins pop open.

Strain through fine sieve. Stir in sugar.

Heat to boiling temperature. Cook 5 minutes.

Skim. Pour into molds or pans. Chill until firm.

CRANBERRY SAUCE

(Using sliced, dehydrated cranberries)

Yield: Approx. 2 gallons.

Portion: Approx. 1/4 cup.

		100 P	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Cranberries, sliced, dehydrated. Water, hot	Pounds 1	Ounces 	3½ pints	
Sugar	7		3½ quarts	

Soak cranberries in water 45 minutes. Add sugar. Cover.

Heat, slowly, to boiling temperature, stir-

ring occasionally.

Let simmer about 15 minutes or until tender. Serve hot or cold.

CRANBERRY SAUCE

(Using flaked, dehydrated cranberries)

Yield: Approx. 2 gallons.

Portion: Approx. 1/4 cup.

Lycopovyva		100 P	D	
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Cranberries, flaked, dehy- drated. Sugar	Pounds 1 8	Ounces 	1 quart	
Water, hot			¾ gallon	

Mix together cranberries and sugar thoroughly.

Stir in water. Cover. Heat, slowly, to boil-

ing temperature, stirring gently.

Cook 1 to 2 minutes. Pour into pans. Cool until firm.

CRANBERRY SAUCE

(Using whole, dehydrated cranberries)

Yield: Approx. 2 gallons.

Portion: Approx. 1/4 cup.

Ingredients		100 P			
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions	
Cranberries, whole, dehydrated. Water, hot	Pounds 1	Ounces 	1½ quarts		
Sugar	7	II I	3½ quarts		

Soak cranberries in water 45 minutes or until berries are softened. Add sugar. Cover. Heat, slowly, to boiling temperature. Let

simmer 15 minutes, stirring occasionally. Serve hot or cold.

Yield: Approx. 3 gallons.

Portion: 5 ounces (approx. ½ cup).

		100 P	Portions	
INGREDIENTS	WEIGHTS			Amounts (approx.)
Pineapple, diced	Pounds 13	Ounces 6	2 No. 10 cans (1½ gallons).	
Pears, sliced	6	10	,	
Peaches, sliced	6	10		
Oranges, diced	4		8 medium (1 quart)	
Grapefruit sections, halved	6	9	1 No. 10 can (3½ quarts).	
Sugar	1	8		
Lemon rind, grated		1	1/4 cup	

Combine all ingredients. Chill thoroughly before serving.

Note.—1. Add diced apple, sliced ripe banana,

grapefruit sections, grapes, diced melons or other fresh fruits when available.

2. Use fruit sirups in fruit-ades or sauces.

BAKED RHUBARB

Portion: 4 to 5 ounces (approx. \(\frac{2}{3} \) cup).

Ingredients		100 P	Portions	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	FORTIONS
Rhubarb, A. P.	Pounds 35	Ounces 		
Salt		1/2	1 tablespoon	
Sugar	10	••••	1¼ gallons	
Water -			13/4 quarts	

Remove rhubarb leaves. Do not peel stalk. Wash. Cut in 1-inch pieces. Place in baking pans.

Stir salt and sugar into water. Pour over rhubarb.

Bake in moderate oven (350° F.) 5 to 10 minutes or until tender.

NOTE.—Cinnamon or nutmeg may be added if desired.

Fish

Fish deserves a prominent place on the menu. It is an excellent source of protein. One average portion of fish will furnish, daily, ¼ to ½ the protein required by an adult. Fish also supplies important vitamins and minerals needed daily in the diet.

Types of Fish

The fat content of fish varies with the species and to some extent with the season. As a rule, fat fish are preferable for baking and broiling. The lean fish are best for boiling, steaming, and chowders. Both fat and lean fish can be fried.

Cleaning and Preparing Fresh Fish

Most fish have a season during the year when fresh varieties are particularly abundant. Although today's market provides almost any kind of fish, fresh or frozen, already cleaned and dressed, some information on cleaning and preparing fresh fish for cooking is desirable.

How to Clean Fresh Fish

Scales are more easily removed from a wet fish. Remove from water. Hold the fish firmly near the base of the tail. Scrape off the scales with a scaler or a knife held vertically as it is moved over the fish, scraping from the tail toward the head, taking care to get off all scales near the base of the fins and head.

Cut a slit in the belly of the fish from the head to tail. Remove the viscera. Cut around the pelvic fins and remove them. Cut off the tail. Cut off head, including pectoral fins, removing these with the head.

Cut into the flesh of the fish at each side of the base of the large back fin. Grasp the rear part of the fin and give a quick pull forward toward the head of the fish. This will remove both fin bones and fin. The anal or ventral fin is removed in the same manner, first cutting the flesh around the fin. Fins should never be trimmed off with shears or knife.

Wash the fish in cold running water, removing any remaining viscera and membranes. The fish is now ready for cooking. Large fish may be cut crosswise into steaks.

To Fillet or Bone Fish

With a sharp knife, cut down the flesh just behind the head until the knife reaches the backbone. Turn the knife flat and cut the flesh along the backbone to the tail. Lift off the whole side of the fish in one piece. Turn the fish over and loosen the meat from the other side in the same manner. Take out any small bones that remain near the shoulders after the fillets have been cut away.

Cover fish bones and head with water. Heat to boiling temperature. Let simmer 1 hour to form a stock to use in fish chowders or fish recipes requiring a liquid.

To Skin Fish

Place the fillet with the skin side down on a flat surface. Loosen the skin from the flesh at the tail end by pushing forward a sharp knife held flat against the skin. Grasp the separated skin and flesh together and hold tight against the knife while loosening the skin.

The fish need not be scaled first.

Storage

Fresh Fish: Fresh fish, including shell fish, are highly perishable and will spoil within a few hours if left exposed to warm temperatures.

Fresh fish should be iced immediately after being caught and kept on ice until ready to use. It should not be kept longer than 2 to 3 days.

Frozen Fish: Frozen fish may be held in cold storage for several months.

Frozen fish should not be defrosted until ready to prepare for cooking. Never allow frozen fish to thaw and re-freeze. Follow instructions for defrosting as specified on the container.

Salted Fish: Salting is a method of preserving fish, with relatively large quantities of salt. Salted

fish may be purchased whole, in fillets or shredded. Some fish are lightly salted merely to preserve them for a short period of time until they reach the consumer. These can be de-salted and cooked in the same manner as fresh fish. Salted fish are perishable and should be stored in a clean, dry, cool place.

Smoked Fish: Smoked fish are perishable and should be stored in a clean, dry, cool place until ready to use.

Canned Fish: Canned fish will keep for an indefinite period as long as the seal of the can is not broken. Canned fish should be stored in a dry, cool place.

Cooking

Fillets and steaks are sometimes lightly salted, when packaged at the fisheries, in which case additional salt may not be required in cooking. Season, to taste, before serving.

Cooked, left-over fish must be placed in refrigerator as soon as cool enough to handle after serving. Use left-over fish within 24 hours.

COMMONLY AVAILABLE FISH

KIND	Түре	SEASON	COOKING METHODS
Salt Water:			
Barracuda	Lean	FebJune	Broil, bake, boil or steam.
Bluefish			Broil, bake, fry.
Butterfish			
			Broil, bake, boil or steam, chowder.
			Broil, bake, pan-fry, boil, chowder.
			Broil, bake, pan-fry, chowder.
			Broil, bake, boil or steam, chowder.
			Broil, bake, boil or steam, chowder.
Hake	Lean	All year	Bake, boil or steam, chowder.
			Broil, bake, boil or steam, chowder.
Herring	Fat	All year	Broil, bake, boil or steam, pan-fry.
Mackerel	Fat	April-Nov.	Broil, bake.
Pollock	Lean	All year	Broil, bake, boil or steam, chowder.
Rockfish	Lean	All year	Broil, bake.
Salmon	Fat	All year	Broil, bake, boil or steam.
Scup (porgy)	Lean	JanNov.	Broil, bake, pan-fry.
Sea Bass	Fat	All year	Broil, bake, boil or steam, pan-fry, chowder.
Sea Trout	Fat	April-Nov	Broil, bake, pan-fry.
Shad	Fat	DecJuly	Broil, bake.
Smelt	Fat	SeptMay	Broil, fry.
Snapper, red	Lean	All year	Broil, bake, boil or steam.
Spanish Mackerel	Fat	NovApril	Broil, bake, pan-fry.
Striped Bass			
Swordfish			
Tuna	Fat	All year	Broil, bake, boil or steam.
White Perch	Lean	All year	Broil, bake, boil or steam, fry, chowder.
Whiting	Lean	May-Dec	Broil, bake, fry.
Fresh Water:			
Blue Pike	Lean	March-Dec	Broil, bake, boil or steam, fry, chowder.
			Broil, bake, boil or steam, fry.
Whitefish			
			Broil, bake, boil or steam, fry, chowder.
			Broil, bake, boil or steam, fry, chowder.
Shellfish:			
Clams	Lean	All year	Broil, bake, boil or steam, deep-fry, chowder.
			Broil, bake, boil or steam, pan-fry, chowder.
			Broil, bake, boil or steam, chowder.
			Bake, broil, steam, fry, chowder.
			Bake, boil or steam, fry.
			Bake, boil, steam, fry, chowder.
			, , , , , , , , , , , , , , , , , , , ,

Note.—Fry refers to both pan-fry and deep-fry.

BAKED FILLET OF FLOUNDER

Portion: Approx. 4 ounces.

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Butter or other fat, melted	Pounds 2	Ounces	1 quart	
Onions, chopped	4		3/4 gallon	
Salt	1	4	½ cup	
Pepper	F	1	3½ tablespoons	
Flounder fillets	25			

Place fillets in greased baking pans.

Combine fat, onions, salt and pepper, mixing thoroughly. Four over fish.

Bake in slow oven (325°F.) about 25 minutes.

NOTE.—Other fish fillets may be used.

BAKED WHOLE FISH

Portion: Approx. 5 to 6 ounces.

Ingredients		100 P	ORTIONS
	WEIGHTS		AMOUNTS (approx.)
Fish, whole, A. P.	Pounds 56	Ounces 	16 whole
Salt		5	10 tablespoons
Paprika		11/4	5 tablespoons
Butter or other fat, melted	2		1 quart

Split and clean fish. Wash thoroughly. Wipe with clean cloth.

Place skin side down on greased shallow baking pan.

Combine salt, paprika and fat. Brush on fish.

Bake in hot oven (375°F.) 30 to 40 minutes until fish is browned and flaked from bone.

Note.—Trout, Spanish Mackerel, Whitefish, Bluefish, Haddock, Flounder or Red Salmon may be used.

STUFFING FOR BAKED WHOLE FISH

Yield: Approx. 10 pounds.

Portion: $\frac{1}{2}$ cup (approx. 3 ounces).

		100 P	Portions	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	
Onion, minced	Pounds 1	Ounces 4	3¾ cups	
Celery, diced		8	1 pint	
Butter or other fat, melted	2		1 quart	
Bread cubes, soft	8	****	4½ gallons	
Lemon juice		****	1 pint	
Salt		4	½ cup	
Pepper	•	****	2 teaspoons	

Fry onions and celery in fat until clear.

Combine bread, lemon juice, salt and pepper.

Stir in onion, celery and fat. Mix well. Stuff fish. Bake.

BAKED STUFFED FISH FILLETS

Portion: Approx. 5 ounces.

Ingredients		100 F	Portions	
	WEI	GHTS	AMOUNTS (approx.)	
Fish, fillets, skinned	Pounds 30	Ounces		
Bread stuffing	10		2½ gallons	
Salt		2	1/4 cup	
Pepper		1/4	1 tablespoon	
Bacon, sliced	1			

Cut fillets into 4- to 5-inch pieces. Place mound of stuffing on each portion.

Roll. Tie with string or fasten with toothpicks. Place in well greased baking pans. Sprinkle with salt and pepper. Place $\frac{1}{3}$ strip of bacon on each roll.

Bake in moderate oven (375° F.) 30 minutes. Note.—Serve with Tomato Sauce (page 218).

BAKED FISH WITH TOMATOES

Portion: Approx. 6 ounces

Ingredients		100 F	PORTIONS
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)
Fish, fillets or steaks	Pounds 30	Ounces 	
Onions, chopped		8	1½ cups
Celery, chopped	2		½ gallon
Peppers, green, chopped		8	1 pint
Butter or other fat		8	1 cup
Salt		3	6 tablespoons
Pepper		1/4	1 tablespoon
Flour		4	1 cup
Tomatoes	12	8	2 No. 10 cans $(6\frac{1}{2})$ quarts).

Cut fish in 3- to 4-inch pieces. Place in greased baking pans.

Fry onions, celery, and green pepper in fat until tender.

Stir in salt, pepper, and flour. Add tomatoes. Heat to boiling temperature. Let simmer until

mixture is slightly thickened.

Pour sauce over fish. Bake in moderate oven (350° F.) 1 hour. Serve sauce with fish.

Note.—Any fish suitable for baking may be used. See chart (page 95).

BROILED FISH

Portion: Approx. 5 ounces

Ingredients	WEIGHTS AMOUNTS (approx.)			Portions
	WEIGHTS		AMOUNTS (approx.)	
Fish, fillets or steaks	Pounds 30	Ounces 		
Oil, salad	-		1 pint	
Salt		$2\frac{1}{2}$	5 tablespoons	
Pepper	A	1/4	1 tablespoon	
Parsley, chopped fine	4 =	3	1 cup	ine III

Cut fish into 3- to 4-inch pieces.

Combine oil, salt, pepper, and parsley. Dip each portion of fish in oil mixture.

Place fish on preheated broiler pan or in shallow baking pans about 2 inches from flame.

Broil 10 to 15 minutes or until fish is browned. Baste fish while cooking.

NOTE.—1. If skin is left on fillet, fish should be placed skin side down in pan.

2. Serve with Creole Sauce (page 213), Mock Hollandaise Sauce (page 214), or Drawn Butter Sauce (Page 214).

Variation

Oven-Broiled Fish

Prepare fish. Place in shallow baking pans. Bake in moderate oven (375° F.) 30 to 40 minutes. Baste fish while baking.

DEEP FAT FRIED FISH

Portion: Approx. 5 ounces.

Ingredients		100 P	ORTIONS PORTIONS
	WEI	GHTS	AMOUNTS (approx.)
Fish, fillets or steaks	Pounds 30	Ounces 	
Eggs, slightly beaten	1	8	15 (1½ pints)
Milk, liquid			1 pint
Salt		$2\frac{1}{2}$	5 tablespoons
Pepper		1/4	1 tablespoon
Bread crumbs, dry	2		2½ quarts

Cut fillets into 3- to 4-inch pieces.

Combine eggs, milk, salt and pepper. Mix thoroughly.

Dip fish in egg mixture. Roll in bread crumbs. Cover completely.

Fry in deep fat at 375° F. 4 to 6 minutes or until browned.

Drain on absorbent paper. Serve immediately.

Variation

Pan-Fried Fish

Omit eggs and milk. Sprinkle fish with salt

and pepper. Dredge with flour. Roll in bread crumbs or cornmeal.

Pan-fry in hot fat allowing 3 to 4 minutes cooking for each side. Turn to insure even browning. Drain on absorbent paper. Serve immediately.

Breaded Baked Fish Fillets

Place breaded fillets in single layer in well greased baking pans.

Place ½ slice bacon on top of each fillet.

Bake in moderate oven (375° F.) 30 minutes or until tender and browned.

CODFISH BALLS

Portion: 2 (2½ to 3-ounce) balls.

		100 PC		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Potatoes, mashed	Pounds 20	Ounces 	2½ gallons	
Codfish, canned	10	••••	11/4 gallons	
Butter or other fat, melted		10	11/4 cups	
Eggs, slightly beaten	2		20	
Salt			To taste	

Mix together potatoes, fish, fat and eggs. Salt to taste.

Form into balls or cakes using a No. 20 ice cream scoop.

Fry in deep fat at 375°F. for 2 minutes or until light golden brown.

Note.—1. Fish balls may be rolled in bread crumbs, crackermeal, cornmeal or flour before frying.

2. Amount of salt added varies with salt in potatoes and fish.

CREAMED CODFISH

Yield: Approx. 5 gallons.

Portion: 2/3 cup (approx. 6 ounces).

		100 P	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Codfish, cooked, flaked	Pounds 15	Ounces 	13/4 gallons	
Cream Sauce, medium			4 gallons	
Eggs, beaten	2	- I	20 (1 quart)	

Mix together codfish and cream sauce.

Add eggs, stirring rapidly to prevent cooking.

Note.—Serve on toast or rice or in casseroles with buttered crumbs.

BOILED FINNAN HADDIE

Portion: Approx. 4 ounces.

		100 P	Portions	
Ingredients	WEIGHTS		Amounts (approx.)	
Finnan Haddie, fillets	Pounds 25	Ounces 		
Water, cold			To cover	
Milk, liquid			3/4 gallon	
Butter or other fat		6	³ / ₄ cup	

Place fillets in baking pans. Cover with water.

Heat to boiling temperature. Let simmer about 10 minutes. Pour off water.

Add milk. Heat, slowly, to boiling temperature.

Dot with butter and serve.

Variation

Steamed Finnan Haddie

Place fillets in pans. Place in steamer. Steam about 15 minutes or until tender. Sprinkle lightly with pepper.

Note.—Fish may be placed over boiling water, covered tightly and steamed until done.

ESCALLOPED FISH

Portion: Approx. 5 ounces.

		100 P		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Fish, cooked, flaked	Pounds 15	Ounces 	1¾ gallons	
Cream Sauce, medium thick (page 209).			1½ gallons	
Salt		2	1/4 cup	
Pepper		1/2	1¾ tablespoons	
Bread crumbs, dry	4		11/4 gallons	

Combine fish, cream sauce, salt and pepper.
Arrange fish mixture and bread crumbs in alternate layers in greased baking pans.

Sprinkle surface with crumbs.

Bake in moderate oven (375°F.) 25 minutes.

Portion: 2 (3-inch) cakes.

Ingredients		100 F		
INGREDIENTS	WEIGHTS		Amounts (approx.)	Portions
Fish, cooked, flaked	Pounds 20	Ounces	2½ gallons	THE PARTY OF STREET
Potatoes, mashed, unsea-	20		2½ gallons	
Eggs, slightly beaten	1	4	16 (1½ pints)	
Bread crumbs, dry, fine	2	12	3½ quarts	
Salt		3	6 tablespoons	
Pepper			1½ teaspoons	
Flour	1		1 quart	

Combine fish, potatoes, eggs, crumbs, salt, and pepper.

Place in refrigerator to chill thoroughly.

Shape into 3-ounce cakes, 3 inches in diameter and 1 inch thick. Roll in flour.

Fry in hot, deep fat at 375°F. about 2 to 3 minutes.

Drain on absorbent paper.

NOTE.—1. Any cooked fish may be used.

2. Serve with Tomato Sauce (page 218).

TUNA FISH A LA KING

Portion: Approx. 5 ounces.

Ivanthuma		100 P		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Peppers, green, chopped	Pounds 1	Ounces 	1 quart	
Mushrooms, chopped	2		3½ quarts	
Butter or other fat, melted		8	½ pint	
Cream Sauce, medium			11/4 gallons	
Tuna fish, flaked	16	•	21 No. 1 (12-oz.) cans (2 gallons).	
Pimientos, chopped	1	14	(2 gamons) . (2 (15-ounce)) cans $(4\frac{1}{2})$ cups).	

Fry green peppers and mushrooms in fat about 5 minutes or until tender.

Stir in cream sauce, tuna and pimientos. Reheat.

Note.—Serve hot on toast.

Portion: Approx. 6 ounces

		. 100 P	ORTIONS	Portions
Ingredients	WEIGHTS -		AMOUNTS (approx.)	ORTIONS
Salmon	Pounds 24	Ounces	24 No. 1 cans (3 gal- lons).	
Celery, diced	1		1 quart	
Onions,-chopped	1		1½ pints	
Butter or other fat	1		1 pint	
Milk and salmon liquor			½ gallon	
Bread crumbs, dry	3	8	1 gallon	
Salt		1	2 tablespoons	
Pepper		1/4	1 tablespoon	
Tabasco sauce			1 tablespoon	
Lemon juice			1 pint (8 lemons)	
Lemon rind, grated		1	½ cup	
Egg yolks, beaten	1		24 (1 pint)	
Egg whites, stiffly beaten	1	6	24 (1½ pints)	

Drain salmon. Reserve liquor. Remove bones and skin. Flake.

Fry celery and onions in fat until clear.

Combine salmon, celery, onions, milk, and bread crumbs. Stir in salt, pepper, tabasco sauce, lemon juice, lemon rind, and egg yolks. Mix well.

Fold in egg whites. Pack mixture in well greased baking pans.

Bake in moderate oven (350° F.) 1 hour or until firm.

Note.—1. Use all the salmon liquor drained from salmon.

2. Serve with Egg Sauce (page 210) or Pimento Sauce (page 210).

Variations

Tuna Fish Loaf

Use 24 pounds (24 1-pound cans, 3 gallons) tuna fish in place of salmon.

Salmon Croquettes

Chill salmon mixture thoroughly.

Make croquettes using a No. 16 scoop. Shape and crumb for frying. Chill thoroughly.

Fry in hot, deep fat at 375° F. about 5 minutes or until golden brown.

STEAMED CLAMS

Scrub clams. Wash under running water to remove sand.

Place in large kettle. Add 1 quart water for each bushel of clams.

Cover closely. Heat to boiling temperature. Cook until shells open. Remove from heat immediately.

Serve hot, in shells, with melted butter and cups of liquor from kettle.

Note.—1. Clams removed from shells may be breaded and fried.

2. Chopped clams may be used in Clam Cakes. See recipe for Fish Cakes (page 102).

BOILED HARD SHELL CRAB

Portion: 1 (approx. 8-ounce) crab; ½ cup meat (approx. 4 ounces).

Select only live crabs for cooking.

Plunge into rapidly boiling salted water (1 tablespoon salt to 1 quart water).

Cover. Heat to boiling temperature. Cook 20 minutes.

Drain. Plunge in cold water to cool thoroughly.

Break off claws and tail, or apron. Open shells by wedging strong, sharp knife at the tail end.

Remove spongy substance (gills, stomach and intestines) from between sides of top shell and body.

Remove meat. Flake.

Crack claws with cracker or small hammer.

Remove meat.

Note.—1. Use meat for salads, or in creamed and au gratin dishes.

2. Before using crab meat, examine it carefully for any small pieces of gristle or shell.

Variation

Steamed Crabs

Combine 3 parts water with 1 part vinegar and pour small amount, enough to create sufficient steam, into steam-jacketed kettle. Heat to boiling temperature. Place live, active crabs in kettle or steamer and cook, covered, until shells have turned red.

DEVILED CRAB

Portion: 4 to 6-ounce individual Deviled Crab.

		100 F	PORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Crabmeat, flaked	Pounds 16	Ounces 	2 gallons	
Milk, liquid			4½ quarts	
Butter or other fat, melted	1	8	1½ pints	
Flour		12	1½ pints	
Salt	****	2	1/4 cup	
Mustard, dry			1 tablespoon	
Lemon juice	••••	••••	½ cup (2 lemons)	-
Worcestershire sauce		****	2 tablespoons	
Bread crumbs, fine	2		1 gallon	

Examine crabmeat carefully for any small pieces of gristle or shell.

Remove cartilage or any solid particles from crabmeat. Flake.

Heat milk to boiling temperature.

Blend together fat, flour, salt and mustard to a smooth paste.

Stir into milk. Cook 5 to 10 minutes or until

thickened.

Stir in lemon juice, Worcestershire sauce and crabmeat.

Stuff thoroughly scrubbed crab shells with mixture or place in greased baking pans. Cover with crumbs.

Bake in moderate oven (375°F.) about 10 minutes or until crumbs are browned.

BOILED LIVE LOBSTER

Portion: 3/4 to 1-pound lobster in shell.

Select live lobster for cooking.

Hold lobster firmly just behind the claws and plunge head first into boiling salted water (1 tablespoon salt to 1 quart water).

Reheat to boiling temperature. Cook for 25 to 30 minutes or until lobsters turn bright red. Drain. Remove lobsters.

Pull tail back from body. Split under side of shell with sharp knife. Lay open.

Remove sac (called "lady") and black intestinal vein running from head to tail. Do not remove coral and greenish liver. Crack claws with cracker or small hammer. Note.—1. Serve with melted butter or Tartare Sauce (page 218).

2. Lobster meat may be used for creamed or au gratin dishes or salad.

Variation

Cold Boiled Lobster

Plunge cooked hot lobster into cold water. Chill before splitting.

Serve with mayonnaise (page 237).

BROILED LIVE LOBSTER

Portion: 3/4 to 1-pound lobster in shell.

Place lobster on its back. Cross long claws and hold firmly.

Make a deep incision through the entire body from the mouth to the tail.

Remove sac and black intestinal vein running from head to tail. Do not remove coral and greenish liver. Crack claws.

Place lobster, shell side down, in baking pan or on broiler tray.

Brush with melted butter or oil. Sprinkle lightly with salt, pepper and paprika.

Broil about 20 minutes or until meat is tender and the shell red.

Note.—1. Serve with drippings from lobster, melted butter and quartered lemon.

- 2. Select only live lobsters for broiling.
- 3. Crack claws with nut cracker or small hammer.

Portion: 4 ounces (approx. 1/2 cup).

		100 F	PORTIONS
Ingredients	WEIGHTS		Amounts (approx.) Portions
Onions, grated or chopped	Pounds 1	Ounces 	1½ pints
Butter or other fat, melted	2		1 quart
Flour		4	1/2 pint
Salt	h	4	½ cup
Tomato juice			1 No. 10 can (3 qts.)
Tabasco sauce	T	1	2 tablespoons
Oysters, selects			3 gallons

Fry onions in fat until clear. Stir in flour and salt and blend to a smooth paste. Add tomato juice and tabasco sauce.

Heat to boiling temperature. Cook until slightly thickened, stirring constantly.

Add oysters. Let simmer until edges of oysters curl.

Note.—1. Serve hot on toast.

2. 4 ounces $(1\frac{1}{3})$ cups) minced parsley may be stirred in after oysters are cooked.

FRIED OYSTERS

Portion: 6 to 7 oysters.

		100 P		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Oysters, selects	Pounds	Ounces	4 gallons	
Salt		2	½ cup	
Pepper		1/2	13/4 tablespoons	
Eggs, whole		91/2	6 (1 cup)	
Milk, liquid			1% cups	
Cracker meal	3		1 gallon	

Remove any foreign particles or shell clinging to oysters.

Mix together salt, pepper, eggs and milk.

Place oysters into egg and milk mixture. Remove oysters, individually. Coat each oyster thoroughly with meal.

Fry in hot deep fat at 375° F. 3 to 4 minutes or until crisp and brown.

Drain on absorbent paper. Serve immediately.

OYSTERS JAMBALAYA

Portion: Approx. 8 ounces, with rice.

		100 P	ORTIONS
Ingredients	WE	GHTS	AMOUNTS (approx.)
Oyster liquor or stock	Pounds	Ounces 	2 gallons
Butter or other fat	2		1 quart
Flour		8	1 pint
Salt ····		2	½ cup
Cayenne	••••	1/4	3/4 tablespoon
Tomatoes	12	12	2 No. 10 cans $(1\frac{1}{2})$ gallons).
Ham, cooked, diced	6		$4^{1}/_{2}$ quarts
Oysters, standards	••••	••••	3 gallons
Rice, cooked, hot (page 44)	21	****	3½ gallons

Strain and heat oyster liquor to boiling temperature.

Blend together fat, flour, salt and cayenne. Stir into hot liquor.

Cook until thickened, stirring constantly.

Add tomatoes, ham and oysters. Cook slowly about 10 minutes or until edges of oysters curl.

Serve hot over cooked rice.

CREAMED SHRIMPS

Portion: Approx. 6 ounces.

		100 P	ORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Egg yolks, beaten	Pounds 1	Ounces	24 (1 pint)
Cream Sauce, medium, hot (page 208). Eggs, hard-cooked, diced	3		13/4 gallons
Salt		2	1/ ₄ cup
Pepper	.,	1/2	1¾ tablespoons
Shrimps, cooked, cleaned	20	****	4 gallons

Stir egg yolks into cream sauce. Add hard-cooked eggs, salt and pepper.

Stir in the shrimps. Heat to boiling temperature. Simmer gently 10 minutes.

NOTE.—10 No. 5 cans (4 gallons) shrimps may be used in place of 20 pounds fresh shrimps, cooked, cleaned.

Portion: 8 ounces (approx. 1 cup).

	100 PORTIONS			
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Shrimps, A. P.	Pounds 20	Ounces 	2½ gallons E. P	
Water			To cover	
Pork drippings, melted	1	8	1½ pints	
Onions, chopped	3		21/4 quarts	
Peppers, green, chopped	2		½ gallon	
Celery, chopped	4		1 gallon	
Tomatoes, fresh, cubed	6		3/4 gallon	
Salt		11/2	3 tablespoons	
Pepper		1/4	3/4 tablespoon	
Bean sprouts, drained	12	12		
Fish stock or water			quarts). 2 gallons	
Butter or other fat, melted	1		1 pint	
Flour	••••	8	1 pint	
Soy sauce			1 quart	
Rice, cooked (page 44)	21		3½ gallons	

Cover shrimps with water. Heat to boiling temperature.

Cook 20 minutes. Drain. Plunge into cold water to cool quickly.

Remove shell. Remove black vein with sharp pointed knife. Wash thoroughly.

Fry in drippings 10 minutes.

Add onions, green pepper, celery, tomatoes, salt and pepper. Simmer 10 minutes. Add bean sprouts.

Heat fish stock or water to boiling temperature.

Blend together fat and flour to a smooth paste. Stir into stock.

Cook about 10 minutes or until slightly thickened, stirring constantly.

Stir in Soy sauce. Add sauce to shrimp mixture. Reheat.

Serve with the cooked rice.

NOTE.—1. 6 No. 5 cans of shrimp may be used in place of fresh shrimp.

2. 1 No. 10 can tomatoes may be used in place of fresh tomatoes.

Portion: Approx. 8 ounces.

		100 P	ORTIONS Portions	Dongrova
Ingredients	WEI	GHTS	Amounts (approx.)	
Shrimps, A. P.	Pounds 20	Ounces 	2½ gallons E. P.	
Water			To cover	
Tomatoes	10		1½ No. 10 cans (1¼	••••••
Creole Sauce (page 213)	****		gallons). 1 gallon	•••••
Peas	6	10	1 No. 10 can (3½	•••••
Salt	••••	2	quarts). 1/4 cup	
Cayenne		1/4	³¼₁ tablespoon	•••••
Rice, cooked, hot (page 44)	21	••••	3½ gallons	

Cover shrimps with water. Heat to boiling temperature.

Cook 20 minutes. Drain. Plunge into cold water to cool quickly.

Remove shell. Remove black vein with sharp pointed knife. Wash thoroughly.

Combine shrimps, tomatoes, creole sauce,

peas, salt and cayenne.

Heat to boiling temperature. Let simmer 10 minutes.

Serve with boiled rice.

NOTE.—6 No. 5 cans (12 pounds) ($2\frac{1}{2}$ gallons) shrimps may be used in place of raw shrimps.

Meat

Meat is one of the most important components of the meal. It supplies a large proportion of the nutrients necessary in a well-balanced menu.

In addition to its contribution of vitamins, minerals, protein and food energy, it has a distinctive savory value. The appearance and aroma of a well-cooked piece of meat helps to stimulate the flow of digestive juices and is thus an aid to digestion.

Storage of Meat

Meat is a perishable product and must be treated as such.

Place fresh meat under refrigeration immediately upon receiving it. Place it so that air can circulate freely around it. Store fresh meat at 32° F. to 34° F.

Optimum temperature for storing frozen meats, either boneless or bone-in, is 0° F. or lower, preferably lower.

Place left-over meat in a refrigerator as soon as it is cool enough to handle and definitely plan to use it within 24 to 36 hours.

Smoked and salted meat should also be stored in a refrigerator.

Selection of Cuts

Make a study of the carcass so that it may be cut economically and advantageously. Cuts of meat differ in tenderness according to the location in the carcass. These differences make it desirable to use certain cuts for each method of cooking.

Selection of cuts is possible in the Navy, because of the number of carcasses available. The use of all cuts, irrespective of tenderness, for a single purpose is neither necessary nor desirable.

Choose, carefully, the cuts of meat for each respective use to obtain the most satisfactory results. Select the tender cuts for steaks, chops and oven roasts, the less tender cuts for braising and stews, and the least tender for ground meat.

If both tender and less tender cuts are used for the same purpose, the tender cuts are overcooked and unpalatable before the less tender pieces are edible. In addition, it is not good economy to use a tender cut, which is expensive, when a less tender, less expensive cut will serve the same purpose and will give satisfactory results.

Cut the pieces of meat for roasting or braising of approximately uniform size so that the smaller pieces will not overcook before the larger ones are done. It is preferable to cut the pieces of meat for braising and roasting as large as possible, because this reduces the amount of shrinkage. If the pieces are not all the same size, put the largest cuts on to cook first.

Cooking Temperatures

A relatively low, constant temperature is recommended for cooking all cuts of meat regardless of the method.

The advantages of using a low, constant temperature are: less cooking loss, more servings, juicier meat, more tender meat, more uniform cooking, less fuel consumption although longer cooking time, less attention required and less splattering of the oven in roasting.

Degree of Doneness

Avoid overcooking meat. The longer meat is cooked the greater the shrinkage and loss in flavor and juiciness.

The stage of doneness depends on the kind of meat and personal preference.

A meat thermometer is recommended as the most accurate means of determining when roasted meat is done. The exterior appearance cannot be used as a guide to doneness. The thermometer should be inserted to the center of the largest muscle in the cut. The meat then is roasted until the thermometer reading indicates the desired degree of doneness.

Carving Cooked Meat

After cooking, let meat "set" about 30 minutes. This allows the meat to become firm. Hold the meat firmly and carve across the grain with a sharp knife. Keep the meat hot, before and after carving, when it is to be served hot.

Time-Table

Time-tables are based on the relation of time to weight, allowing a certain number of minutes per pound of meat at a given temperature. They are useful for estimating the time at which meat must be started in order to be done in time for the meal. Time-tables will be found under the various methods of cooking.

Seasoning

Large cuts of meat may be seasoned at any time. The most convenient time is at the beginning of the cooking stage. Salt does not penetrate more than 1 inch below the surface and any juices drawn out by it enrich the gravy. Salt will penetrate small pieces of meat fairly well.

Boning

It is desirable to remove bones in roasts before cooking to facilitate the carving of the cooked product.

Larding

To improve the flavor of lean cuts of meat, fat may be inserted into the meat with a larding needle, or slices of cod fat, suet or pork fat back may be placed on the top of the cuts before cooking.

FATS

Fats are important sources of calories. All fat should be used to good advantage. Excess fat from carcass meat should be rendered. Drippings from bacon, sausage, lamb, pork, and beef should be strained and held in a refrigerator to use for cooking.

Prepare Fat for Rendering

Use Only Fresh Fat: Fat should be rendered daily. If fat must be kept over night, hold it in refrigerator in largest pieces possible.

Trim Fat Carefully: Remove all lean meat, tough membranes, bones, cartilages, blood, and dirt.

Cut Into Strips For Grinding: Strips of fat will feed through grinder more easily than cubes. Do not cut until ready to render.

Grind Through Coarse Plate: Ground fat will render more quickly, render more uniformly, and will provide 10 to 15 per cent more rendered fat.

Render Immediately: Ground fat and small pieces of fat are highly perishable and should be rendered promptly.

Where to Render Fat

Top Of Stove: Preferred for small quantities of fat.

Steam-Jacketed Kettle: Preferred for large quantities of fat. Render with lid off and steam valve wide open.

Immersion Heat Unit Fryer: Suitable for rendering a small quantity of fat. Add fresh fat for rendering only when fat in fryer is hot from previous use. Do not heat fat in fryer to render a small quantity of additional fat, since each heating lowers the smoke point.

How to Render Fat

Put Ground Fat in Container: Use roasting pan, top of double-boiler or steam-jacketed kettle. Do not pack. Loose fat renders more quickly. Fat from beef, lamb, pork, and veal may be rendered separately, or together, in any proportions available.

Render Slowly: Low temperatures help to provide a high quality rendered fat. Avoid hot spots on stove where fat is likely to scorch.

Stir Frequently: Stirring prevents fat from sticking, shortens rendering time and assures a higher quality product.

Render Until Done: When completely rendered, the cracklings have separated and are a mixture of grayish white and light brown color.

Do Not Overcook: Overcooking impairs flavor and lowers the smoking point of rendered fat. Temperature of fat during rendering should not exceed 250° F.

Handling Rendered Fat

Pour Off Immediately After Rendering: The rendered fat may take on a roast meat flavor if allowed to remain with the cracklings too long after rendering.

Strain Through Cloth: Place clean cheesecloth in strainer over container. Dip and pour fat and cracklings into cloth, slowly. Press cracklings to remove fat.

Cool At Room Temperature: Allow fat to cool at room temperature in clean container.

Stir Occasionally: Stir rendered fat a few times while hardening to improve its texture.

Recovering Fat Drippings

Pour Off Excess Fat: Fat drippings not used for gravy should be saved.

Strain Fat Through Cloth: Straining assures more satisfactory fat for cooking purposes.

Cool At Room Temperature: Allow fat to cool slowly at room temperature in suitable container. If there is water in the fat it will settle to the bottom. The straight fat can then be removed.

Blending and Storage of Fats

Mixing Fats: Rendered fat from beef, lamb, pork, and veal and fat drippings may be kept separate or poured into the same container, if desired. When two or more kinds of fat are poured into the same container, they should be mixed thoroughly.

Store in Covered Containers: Cover fat to keep out light and air; like heat they are enemies of fat.

Store in Cool Place: As soon as the fat has cooled, place it in the refrigerator and hold it until ready to be used. Prevent accumulation of old stock.

BASIC METHODS OF MEAT

There are two basic methods for cooking meat.

- 1. By *Dry Heat*: The more tender cuts of meat which can be roasted, broiled or fried are cooked by this method.
- 2. By Moist Heat: The less tender cuts, which contain more connective tissue and need longer cooking, in water or steam, to soften the connective tissue and make the meat more tender are cooked by this method. Braising and simmering are the two main ways of cooking meat by the moist heat method.

How to Roast

Season with salt and pepper: This may be done before, during, or at the end of the roasting period.

Place roast on rack, if available, in the pan, fat side up: As fat melts it runs over and through the meat, so basting is unnecessary.

Do not sear: Searing does not keep in the juices. Meat and gravy will be nicely browned without searing.

Do not add water: At constant temperature, the drippings will not burn. If the heat cannot be kept constant, a small amount of water may be necessary.

Do not cover: If covered, the meat will be surrounded by steam, making it a pot roast.

Roast at constant temperature (325° F.): Roasting in a slow oven reduces shrinkage and increases flavor, juiciness and tenderness.

Turn boneless roast: A boneless roast will cook more uniformily if turned once or twice during cooking.

Roast until done: Time required for roasting depends on the kind of meat, oven temperature and degree of doneness desired. See Time-Table for roasting.

ROASTING

(Meat Cuts for Roasting)

BEEF	LAMB	Pork	VEAL
		Fresh	
Inside (Top) Round.	Leg, boneless.	Leg, boneless.	Leg, boneless.
Outside (Bottom) Round.	Loin, boneless.	Loin, boneless.	Loin, boneless.
Knuckle (Tip).	Rack, boneless.	Boston Butt.	Rib, boneless.
Tenderloin.	Shoulder, boneless.	Picnic, boneless.	Shoulder, boneless.
Sirloin-Rump Butt.	Loaf (Ground Lamb).	Spareribs.	Loaf (Ground Veal).
Loin Strip.		Smoked	
Boneless Rib.			
Inside Chuck.		Ham.	
Shoulder Clod.		Picnic.	
Loaf (Ground Beef).		Shoulder Butt.	

TIME-TABLE FOR ROASTING

(Oven Temperature 325° F.)

KIND OF MEAT	WEIGHTS	APPROXIMATE COOKING TIME PER POUND			
KIND OF MEAT	WEIGHTS	RARE	MEDIUM	WELL DONE	
Beef, boneless	Pounds 6 to 8	Minutes 25 to 30	Minutes 30 to 35	Minutes 35 to 40	
Lamb, boneless	3 to 6	Never rare	35 to 40	40 to 45	
Pork, boneless	4 to 6	Always	well done.	45 to 50	
Veal, boneless	4 to 6	Always	well done.	40 to 45	
Ham, smoked	8 to 10	Always	well done.	30	
Ham, smoked	10 to 12	Always	well done.	25	
Ham, smoked	12 to 14	Always	well done.	20	
Ham, smoked	14 to 16	Always	well done.	20	
Ham, smoked, picnic	4 to 8	Always	well done.	35 to 45	

KIND OF MEAT	STAGE OF	MEAT THERMOMETER	APPROXIMATE COOKING TIME PER POUND		
TAND OF NEXT	Doneness	READING	Boneless	Bone-in	
Beef	Rare	140° F	Minutes 25 to 30	Minutes 15 to 20	
Beef	Medium	160° F.	30 to 35	20 to 25	
Beef	Well done	170° F.	35 to 40	25 to 30	
Veal	Well done	170° F. to 180° F	40 to 45	30 to 35	
Lamb	Medium	170° F	35 to 40	25 to 30	
Lamb	Well done	180° F	40 to 45	30 to 35	
Pork, fresh	Well done	185° F	45 to 50	30 to 35	
Pork, smoked	Well done	170° F	25 to 35	20 to 30	

How to Broil

Turn heat to highest point: Proper distance of meat from heat assures a moderate temperature.

Place steak in broiler: Place 1-inch steak 2 inches from heat and 2-inch steak 3 inches from heat.

Broil until top side is evenly browned: The meat will be about half done at this point.

Season browned side with salt and pepper: Salt is added after browning, to reduce the loss of juices.

Turn, brown and season second side: Only one turning is necessary, as searing does not keep in juices.

Broiling time: Size and thickness of steaks and chops determine the broiling time. See Time-Table for broiling.

Serve hot: Broiled meat should be served on hot plates as soon after cooking as possible.

How to Griddle-Broil

Place meat on ungreased griddle: Enough fat cooks out of meat to keep it from sticking.

Brown and turn: This develops the flavor and insures more even cooking.

Season with salt and pepper: Season each side after browning.

Turn occasionally: This insures even cooking.

Cook at moderate temperature: A moderate temperature helps to retain the juice in the meat and prevents over-browning.

Scrape away surplus fat as it collects: Meat should griddle-broil, not fry.

Do not add water. Do not cover: Meat will braise in the presence of moisture.

Cook to desired doneness: Time for griddle-broiling will be approximately ½ the time for broiling a similar cut of equal thickness.

Serve hot: Broiled meat should be served on hot plates as soon after cooking as possible.

MEAT CUTS FOR BROILING AND FOR PAN-BROILING

(Tender cuts)

BEEF	BEEF LAMB		VEAL	
		Fresh		
Top Round Steak (Inside).	Leg Steaks.	Fresh pork is not broiled or pan-	Veal is not broiled or	
Sirloin Tip Steak (Knuckle).	Sirloin Chops.	broiled.	pan-broiled.	
Filet Mignon (Tenderloin).	Loin Chops.	Smoked	Variety Meats	
Top Sirloin Steak (Sirloin Butt).	Rib Chops.	Ham, sliced.	Liver, sliced. (Beef,	
Rib Steak (Spencer Roll).	Shoulder Chops.	Bacon, sliced.	Lamb, Pork, Veal.)	
Inside Chuck Steak (Chuck Roll).		Shoulder Butt, sliced.		

TIME-TABLE FOR BROILING

(Moderate Broiling Temperature)

		APPROXIMATE COOKING TIME		
KIND OF CUT	THICKNESS	RARE	MEDIUM	WELL DONE
Beef: Individual boneless steaks	$ \begin{bmatrix} Inches \\ 1/2 \\ 1 \\ 1 \\ 11/2 \\ 2 \end{bmatrix} $	Minutes 6	Minutes 10	Minutes 15 25 35 50
Patties	1	15	20	25
Lamb:			=======================================	
Leg chops	1/2	Never rare	10	15
Shoulder chops	1	Never rare	20	25
Double loin and rib chops	11/2	Never rare	25	30
Patties	1	Never rare	20	25
Pork:				
Ham slice	\begin{cases} 1\frac{1}{2} &	Always Always	well done. well done.	20 25
Bacon	1/8	Always	well done.	4 to 5

Note.—Time for griddle-broiling is approximately one-half the time for broiling.

How to Fry

1. Griddle-Frying

Dredge meat in flour, if desired: Meat for frying should be sliced thin.

Brown quickly on both sides, in small amount of hot fat: This differs from griddle-broiling in which no fat is added.

Season with salt and pepper: Season each side after browning.

Turn occasionally: This insures even cooking.

Do not cover: If meat is covered it will braise.

Cook at moderate temperature until done: Frying gives crisply browned exterior, and fine flavored, but less tender product than braising.

2. Deep Fat Frying

Keep temperature of fat under 380° F.: Follow recipe directions for deep fried foods.

Proper Care of Frying Fat

Proper care of frying fat is important to flavor, quality, wholesomeness and the economical production of fried foods.

Temperature Control: Fat should never be heated to a temperature above 400° F. It will burn or scorch and break down chemically. This impairs the flavor and quality and shortens the life of the fat.

Use a thermostat or a thermometer to control the temperature. Check at regular intervals to be sure the readings are accurate.

Regulate the heat on gas heated equipment to prevent the flame from flaring up around the sides of the kettle above the surface of the fat. Hot fat splashed on a still hotter surface burns and scorches.

In electrically heated equipment, carefully clean the heating elements to keep them free from burnt fat and food particles which may cause non-uniform heating.

Adjust the burners frequently and periodically. Poor adjustment produces unsatisfactory temperatures.

Turnover: Fat is absorbed by the food in the frying process. Therefore, the original amount of fat in the kettle is reduced and fresh fat must be added to replace the absorbed fat. This replacement is called "turnover." A rapid

"turnover" reduces the amount of fat to be discarded.

Any frying fat will break down when it is held at frying temperatures. The more stable frying fats break down least.

With a large amount of frying fat, in proportion to the amount of food being fried in the kettle, there is an excess of fat being held at frying temperatures. Also, fat absorbed in fried food is small in proportion to the total amount of fat in the kettle, and "turnover," therefore, is slow. These factors lead to fat breakdown.

For best results use a frying kettle which is not too large for the amount of food being fried and use the smallest quantity of fat possible.

Use the fat level ordinarily indicated on the equipment for best results. If a fat level is not indicated, about ½ kettle of fat allows ample room for frying without the fat bubbling or foaming over the top as food is added.

Cleaning the Fat: Strain or filter off burnt food particles which collect in the fat after each frying period. An accumulation causes excessive smoking and shortens the frying life of the fat.

The simplest method for removing burnt particles is to strain the fat through several thicknesses of cheese cloth.

When this method does not entirely clear the fat, it can be drawn off into a separate container, after heating it to a temperature below 212° F., and carefully sprinkling the surface with water. As the water settles to the bottom, it carries down very fine particles of burnt food which are suspended throughout the fat. The clear fat can then either be poured off from the water and remaining sediment, or the water and sediment can be drawn off from the bottom of the container by means of a spigot device.

Cleaning Equipment: Clean frying kettles once each week.

Scrub kettles with a wire brush and hot water and soap or washing powder. Be sure that no soap or washing powder remains. Rinse kettles thoroughly with clean water.

When to Replace Frying Fat: Taste fried food daily in order to determine the point at which fat in the kettle should be discarded and replaced. If foods begin to have a noticeable flavor of used fat, the fat should be discarded for frying purposes.

How to Make a Stew

Cut meat in small pieces: To avoid bone splinters, do not chop unboned meat with a cleaver.

A boneless stew is more desirable than one with bones.

Season with salt and pepper: Salt will penetrate small pieces, so season at start of cooking.

Brown meat on all sides in hot fat, if desired:
A browned stew has more flavor than a light stew.

Cover meat with hot or cold water: Boiling water does not seal in juices. Cover meat entirely with water so it will cook uniformly.

Cover kettle and cook at simmering temperature: Meat will have more flavor and more juice when simmered at 185°F. to 200°F.

Cook until tender: Meat will be done when it is tender, about 2 to $2\frac{1}{2}$ hours.

Add vegetables before meat is done: Vegetables should be added just long enough before the meat is done for them to become tender. Follow recipe directions.

How to Cook in Water (Simmering)

Cover meat with water: Water may be hot or cold. It should entirely cover the meat to insure uniform cooking.

Season with salt and pepper: Spices or herbs may be added for extra flavor.

Cover kettle and cook meat until tender: Meat will be done when it is tender.

Cook at simmering (not boiling) temperature: Simmering retains juices, increases flavor, and leaves meat firm for carving.

Add vegetables, if desired: Vegetables should cook just long enough to be tender for best nutritive value, flavor and texture.

MEAT CUTS FOR STEWING AND FOR COOKING IN WATER

(Less tender cuts)

Beef	Lamb	Pork	VEAL
		Fresh	
Flank Meat.	Shoulder, boneless or bone-in.	Spareribs.	Shoulder, boneless or bone-in
Shank Meat.	Breast, boneless or bone-in.	Pigs Feet.	Breast, boneless or bone-in.
Boneless Neck.	Shank, boneless or bone-in.	Hocks.	Neck, boneless or bone-in.
Boneless Brisket. Boneless Plate. Rib Fingers. Hanging Tender.	Neck, boneless or bone-in. (Large cuts of lamb are not cooked in water.)	Smoked Bacon. Ham. Picnic. Shoulder Butt.	Shank, boneless or bone-in. Flank, boneless or bone-in. (Large cuts of veal are not cooked in water.) Variety Meats Heart, Tongue, Kidneys.

TIME-TABLE FOR COOKING MEAT IN WATER

KIND OF CUT	Average Weight	APPROXIMATE COOKING TIME PER POUND	
Ham, smoked	Pounds 8 to 10	Minutes 30	
Ham, smoked	10 to 12	25	
Ham, smoked	12 to 14	20	
Ham, smoked	14 to 16	20	
Ham, smoked, picnic	4 to 8	35 to 45	
Beef, corned	4 to 6	40 to 50	
Beef, fresh	4 to 6	40 to 50	

How to Braise

Season with salt and pepper: Herbs, spices, and certain vegetables may be added for variety in flavor during the cooking process.

Brown meat on all sides in hot fat: Browning develops aroma, flavor, and color.

Add very little liquid: Meat and gravy will have better flavor and color when a small amount of liquid is added.

Cover closely: This retains steam and helps

to make the meat tender.

Use oven, top of range or steam-jacketed kettle: The cooking utensil should remain covered.

Cook at low temperature: A simmering temperature decreases shrinkage and increases juiciness and flavor.

Cook until tender: Size, thickness and kind of meat influence the cooking time. When meat is tender it is done. Follow recipe directions.

MEAT CUTS FOR BRAISING

(Less tender cuts, except pork)

BEEF	LAMB	Pork	VEAL
Outside (Bottom) Round. Heel of Round. Rump Butt. Boneless Flank. Shoulder Clod. Inside Chuck. Boneless Neck. Chuck Tender. Boneless Plate. Boneless Brisket. Shank Meat.	Shoulder, boneless or bone-in. Breast, boneless or bone-in. Shank, boneless or bone-in. Neck, boneless or bone-in.	Fresh Loin Chops. Leg Steaks. Shoulder Steaks. Spareribs. Hocks.	Shoulder, boneless or bone-in Breast, boneless or bone-in. Shank, boneless or bone-in. Neck, boneless or bone-in. Flank. Variety Meats Liver. Hearts. Kidneys.

TIME-TABLE FOR BRAISING MEAT

(Simmering temperature)

KIND OF CUT	AVERAGE WEIGHT or THICKNESS	APPROXIMATE COOKING TIME	
Beef:			
Steaks, boneless	½ to ¾ inch	1 to $1\frac{1}{2}$ hours.	
Swiss steak	1 to 1½ inches	2 to 3 hours.	
Pot roast or "soft" roast	6 to 8 pounds	3 to 4 hours.	
Fricassee	2-inch pieces	2 to 3 hours.	
Veal:			
Cutlets (chops or steaks)	½ to ¾ inch	45 to 60 minutes.	
Breaded slices	½ to ¾ inch	45 to 60 minutes.	
Fricassee	2-inch pieces	$1\frac{1}{2}$ to 2 hours.	
Lamb:			
Chops	½ to ¾ inch	45 to 60 minutes.	
Fricassee	2-inch pieces	$1\frac{1}{2}$ to 2 hours.	
Pork:			
Chops and steaks	½ to ¾ inch	45 to 60 minutes.	
Fricassee	2-inch pieces	$1\frac{1}{2}$ to 2 hours.	
Spareribs	Individual servings	$1\frac{1}{2}$ to 2 hours.	

BEEF: BONELESS, FROZEN

Beef, fresh, frozen, boneless is made from the entire side of beef (hindquarter and forequarter). It is packed in fiber boxes containing approximately 50 pounds as follows:

Roasting and Frying Beef	40% of the side
Stewing and Boiling Beef	30% of the side
Chopped Beef	30% of the side

Defrosting Frozen, Boneless Beef

When facilities are available, frozen boneless beef should be allowed to defrost gradually at temperatures ranging from 36° F. to 38° F. There will be occasions, however, when limited time or lack of facilities will make it necessary to thaw the meat at room temperatures even though it means increased loss of meat juices. The meat should remain in the boxes just as it comes from the meat packing plant. The boxes furnish good

insulation which permits all the meat to thaw uniformly.

An alternative emergency method for thawing this product outside of refrigeration is to open the boxes and distribute the wrapped pieces in the cover and bottom of the box.

The meat will be less likely to discolor if allowed to remain in original wrapping while thawing.

Where electric meat cutters (band saws) are available, the time between issue and use of frozen boneless beef can be speeded up by using the meat cutter to:

Cut frozen boneless roasts into steaks.

Cut stewing and boiling meat into small pieces for stewing.

Cut bricks of chopped beef into small pieces so they will defrost more quickly. Ground meat dishes are more satisfactory when the bricks are thoroughly mixed together after thawing.

Cooking Frozen Stewing and Boiling Beef

Since stewing and boiling beef is cooked in the presence of moisture it makes no great difference whether or not this meat is defrosted before cooking. Simply cut it into pieces of a suitable size, cook at a simmering temperature, and allow additional time for the cooking process.

Roasting Frozen Beef

Frozen, boneless beef can be roasted satisfactorily without being defrosted before it is put in the oven. A very low oven temperature (250° F.) must be maintained; otherwise the meat will become burned and charred on the outside before the inside is thawed and cooked. Frozen meat requires approximately twice as long to roast at 250° F. as fresh chilled or completely defrosted meat at 325° F.

CANNED MEATS

A wide variety of canned meat products are provided for use when the supply of fresh meats is limited, unavailable, or impractical. Because they require less storage space than an equivalent amount of fresh meat, canned meats are desirable. In addition, with the exception of canned whole ham and canned sliced, dried beef, canned meats procured for Navy use are sterile and require no refrigeration. This releases valuable refrigerator space for provisions requiring it.

Canned meats require heating only before serving. They may be eaten cold. In order to reheat the meat, the best method is to heat the

unopened can in boiling water. However, because of the danger of handling hot cans and the possibility of the contents spattering when the can is opened, it is advisable to place the meat in roasting pans and reheat in an oven.

Canned meats are served as they come prepared or can be used in all recipes which specify cooked meat as one of the ingredients. They can be used in place of fresh meat in some recipes. When canned meats are so used, allowance must be made for the fact that the meats are completely cooked to begin with, and the cooking period specified for fresh meat must be reduced.

ROAST BEEF

Portion: Approx. 4 ounces.

Ingredients		100 P	Dominion	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Beef, bone-in	Pounds 60	Ounces 		
Beef, boneless	42			
Salt		8	1 cup	
Pepper		1	3½ tablespoons	

Cut beef into 6 to 8-pound pieces.

Rub with salt and pepper.

Place fat side up in roasting pans. Do not stack or crowd roasts.

Roast at constant temperature in slow oven (325° F.) approximately 3 hours (about 30

minutes per pound per piece) or until roasts are the desired degree of doneness.

Remove roasts from oven. Carve across the grain in ½-inch slices.

Note.—1. Serve with gravy.

2. Serve with Yorkshire Pudding.

Portion: 1 piece (approx. 2 x 2 inches).

		100 F	PORTIONS
Ingredients	WEI	GHTS	Amounts (approx.)
Flour	Pounds 6	Ounces 	$1\frac{1}{2}$ gallons
Salt		3	6 tablespoons
Eggs, unbeaten	4	12	48 (2½ quarts)
Milk, liquid		•	5½ quarts
Beef fat (from roasts), melted		•	

Sift together flour and salt. Stir eggs into flour. Mix thoroughly.

Add milk gradually. Beat until smooth and bubbles form.

Cover bottom of baking pans with fat. Heat

in hot oven $(400^{\circ}F.)$

Pour mixture to depth of ½ inch into the pans. Bake in moderate oven (350°F.) 45 minutes.

Cut in squares and serve with roast beef.

ROAST BEEF WITH SAVORY BROWN GRAVY

(Using roast beef, canned)

Portion: Approx. 6 ounces.

Ingredients		100 I	PORTIONS
INGREDIENTS	WEIGHTS		Amounts (approx.)
Fat, melted	Pounds 1	Ounces 8	1½ pints
Flour	1	8	1½ quarts
Meat Stock (page 251)			3 gallons
Salt		1½	3 tablespoons
Pepper		1/4	1 tablespoon
Beef, roast, canned	30		5 6-pound cans

Blend together fat and flour. Cook until flour is browned, stirring constantly.

Add stock slowly, stirring constantly. Cook until thickened and smooth. Stir in salt and pepper.

Cut canned roast beef into 6-ounce portions. Arrange in roasting pans. Cover with gravy.

Heat in moderate oven (350° F.) 30 minutes. Note.—1. Use all natural juices of canned meat as part of meat stock for making gravy.

2. Meat stock may be made with 6 ounces powdered bouillon or 48 bouillon cubes dissolved in 3 gallons boiling water.

BEEF, SPANISH STYLE

(Using roast beef, canned)

Portion: Approx. 6 ounces.

		100 P	ORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Onions, dehydrated	Pounds	Ounces 15	½ gallon
Water, for onions	T		1 gallon
Beef, roast, canned	36		6 6-pound cans
Salt		3	6 tablespoons
Pepper		1/4	1 tablespoon
Paprika		1/2	2½ tablespoons
Tomatoes	19	2	3 No. 10 cans (2½ gallons).

Soak onions in water 20 minutes.

Place beef and beef juices in roasting pans. Sprinkle with salt, pepper and paprika.

Combine tomatoes and onions. Pour over meat.

Cook in slow oven (300° F.) 30 to 45 minutes or until beef is thoroughly heated through.

NOTE.—Handle meat carefully as canned beef breaks up easily.

BARBECUED BEEF

(Using roast beef, canned)

Portion: Approx. 5 ounces.

INGREDIENTS		100]	Portions	
INGREDIENTS	WEIGHTS		Amounts (approx.)	
Beef, roast, canned	Pounds 24	Ounces	4 6-pound cans	
Barbecue Sauce (page 207)			2 gallons	

Break up meat into small pieces. Add to sauce. Heat to boiling temperature.

Note.—Serve on mashed potatoes, cooked rice,

or cooked noodles, over corn bread or on bread or toast.

Portion: 4 to 5 ounces.

		100 P	PORTIONS	
Ingredients	Weights		AMOUNTS (approx.)	Portions
Beef, bone-in OR Beef, boneless	Pounds 60 42	Ounces 		
Beef fat	L	8	1 cup	
Salt	••••	6	3/4 cup	
Pepper		1/2	$1\frac{3}{4}$ tablespoons	
Beef Stock (page 251) or water, hot.			1 quart	
Onions, chopped	5	****	33/4 quarts	

Cut beef into 6 to 8-pound pieces.

Cook in fat until meat is browned on all sides, turning frequently.

Add salt, pepper, stock or water and onions. Let simmer in tightly covered kettle or cook in slow oven (300° F.) 3 hours or until tender. Turn meat 2 or 3 times while cooking. Add small amounts of liquid as needed.

Remove from pans and slice across the grain in 1/8-inch slices.

Note.—1. Onions may be cooked in fat until brown, if desired.

- 2. Heavy utensils are best for cooking pot roasts.
- 3. Serve with Brown Gravy (page 212) if desired.

Variations

Beef A La Mode

Add 3 pounds (3/4 gallon) diced carrots, 2 pounds (11/2 quarts) diced onions and 1 No. 10 can (31/4 quarts) tomatoes to the pot roast

30 to 45 minutes before the meat is done. Serve the vegetables in the gravy as a sauce over the sliced meat.

Braised Beef with Vegetables

Use 45 pounds bone-in or 31 pounds boneless beef. Add 3 pounds each of sliced carrots, onions, celery and turnips to pot roast allowing 30 to 40 minutes for cooking before roast is done.

Beef Pot-Roast, Spiced

Use highly seasoned, spiced and diluted vinegar, for the liquid on the pot roast and in making the gravy.

Beef Pot-Roast, Yankee

Add diced carrots, sliced onions, parsley, bay leaves, thyme and tomatoes to beef potroast.

Garlic may be used.

BEEF AND GRAVY

(Using beef and gravy, canned)

Portion: 5 to 6 ounces

Ingredients		100 P	PORTIONS	
	WEIG	GHTS	AMOUNTS (approx.)	
Beef and gravy, canned	Pounds 36	Ounces	17 34-ounce cans	

Place beef and gravy in roasting pans to thickness of 2 inches.

Heat in moderate oven (350° F.) $1\frac{1}{2}$ hours.

NOTE.—1. Handle meat carefully. It is tender and breaks easily and should not be stirred more than necessary.

2. Serve with mashed potatoes, cooked noodles, or cooked rice.

Variation

Pork and Gravy

Use 36 pounds (17 34-ounce cans) pork and gravy, canned, in place of beef and gravy, canned.

BEEF AND GRAVY WITH TOMATO DUMPLINGS

(Using beef and gravy, canned)

Portion: Approx. 6 ounces

Ingredients		100 P	ORTIONS
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)
Beef and gravy, canned	Pounds 36	Ounces 	17 34-ounce cans
Meat Stock (page 251)			1 gallon
Flour	6		1½ gallons
Baking powder		41/2	3/4 cup
Salt		21/4	4½ tablespoons
Shortening		4	½ cup
Tomato juice	6		1 No. 10 can (3/4 gal- lon).

Place beef and gravy in roasting pans. Add stock. Heat, slowly, to boiling temperature.

Combine flour, baking powder, salt, and shortening. Blend together thoroughly.

Add tomato juice. Mix to a soft dough.

Drop dumpling dough in 1-ounce portions on hot meat mixture.

Cover roasting pans, closely. Cook 10 minutes or until dumplings are tender.

Note.—1. Meat stock may be made with 2

ounces powdered bouillon or 16 bouillon cubes dissolved in 1 gallon boiling water.

2. Plain Dumplings may be used in place of Tomato Dumplings.

Variation

Pork and Gravy with Tomato Dumplings

Use 36 pounds (17 34-ounce cans) pork and gravy, canned, in place of beef and gravy, canned.

BEEF AND GRAVY WITH VEGETABLES

(Using beef and gravy, canned)

Portion: Approx. 10 ounces

		100 P	Donmana	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Carrots, dehydrated	Pounds 1	Ounces 4	1½ quarts	
Water, for carrots		G-	3/4 gallon	
Potatoes, Julienne style, de-	3	344	1 gallon	
hydrated. Water, for potatoes			1¾ gallons	
Onions, dehydrated		4	1 pint	
Water, for onions			1 quart	
Salt		3	6 tablespoons	
Pepper			2 teaspoons	
Beef and gravy, canned	29	12	14 34-ounce cans	

Soak carrots in 3/4 gallon water 45 minutes. Cover. Heat, slowly, to boiling temperature, about 45 minutes. Let simmer 10 minutes or until tender. Drain.

Soak potatoes in 13/4 gallons water 45 minutes. Cover. Heat, slowly, to boiling temperature, about 45 minutes. Let simmer 10 minutes or until tender. Drain.

Soak onions in 1 quart water 20 minutes. Heat to boiling temperature. Let simmer until all liquid is cooked off.

Combine carrots, potatoes, onions, salt, and

pepper. Mix well. Place in baking pans. Pour beef and gravy over vegetables.

Heat in moderate oven (350° F.) 30 to 45 minutes.

Note.—Reserve liquid drained from vegetables for use in soups or gravies.

Variation

Pork and Gravy with Vegetables

Use 30 pounds (14 34-ounce cans) pork and gravy, canned, in place of beef and gravy, canned.

Portion: 5 to 6 ounces.

		100 P		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Beef, boneless	Pounds 40	Ounces		
Onions, finely chopped	2		1½ quarts	
Salt		6	3/4 cup	
Pepper	:	1	3½ tablespoons	
Flour	3		³ / ₄ gallon	
Tomato catsup			½ gallon	
Beef Stock (page 251)			As needed	
Potatoes, white, E.P.	15			

Cut meat into 3-inch cubes.

Combine meat, onion, salt and pepper. Cook in slow oven (300° F.) 20 to 30 minutes.

Stir in flour. Cook until brown. Stir in tomato catsup. Add enough stock to cover roasts. Reduce heat to 200° F. to 250° F. Cook until meat is tender.

Cut potatoes French style. Add to roast 40 minutes before end of cooking period.

Note.—Use less tender cuts of meat.

SIMMERED BEEF

Portion: Approx. 5 ounces.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beef, bone-in OR Beef, boneless Water	Pounds 60 42	Ounces 		
Salt		8	1 cup	
Pepper		1	3½ tablespoons	
Onions, peeled, whole	2		8 (medium sized)	
Bay leaves	- 		15	

Cut meat into 5-pound pieces.

Place in kettle without stacking or overlapping. Add water only up to surface of meat. Add salt, pepper, onions and bay leaves. Cover tightly. Let simmer about 3 to 4 hours or until beef is tender. Remove from kettle. Reserve broth. Carve across grain.

Note.—Serve with potatoes boiled in beef broth or with Horse-radish Sauce (page 210).

Portion: 1 (6-ounce) steak.

		100 F	Parameter	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beef, bone-in OR Beef, boneless		Ounces 		
Salt		8	1 cup	
Pepper		1	3½ tablespoons	

Cut meat into 6-ounce steaks ½ to ¾ inch thick.

Broil steaks on heated griddle until browned on both sides. Turn steaks frequently to insure even cooking.

Cook to desired degree of doneness. Avoid overcooking.

Sprinkle with salt and pepper, just before serving.

Note.—1. If steaks lack fat, grease griddle slightly with beef suet.

- 2. Steaks may be cooked on griddle until brown on both sides, then placed on racks in open baking pans in slow oven (300° F.) and cooked to desired degree of doneness.
- 3. Serve with French Fried Onions (page 307) or Steak Butter Sauce (page 217).

BRAISED BEEF STEAKS

Portion: 1 (6-ounce) steak.

		100 P	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Beef, bone-in	Pounds 60 42	Ounces 	
Flour	2		½ gallon
Salt		6	3/4. cup
Pepper		1/2	13/4 tablespoons
Fat	2		1 quart
Water			

Cut meat into 6-ounce steaks ½ to ¾ inch thick.

Mix together flour, salt and pepper. Roll steaks in flour.

Cook in fat until browned on both sides.

Add water to cover bottom of pan to depth of 1 inch. Cover tightly. Bake in slow oven (300°F.) 1 to 1½ hours or until tender.

Variations

Country Style Beef Steaks

Prepare steaks and serve with Cream Gravy.

Beef Steaks Smothered with Onions

Brown beef steaks. Cover with 25 pounds $(4\frac{3}{4}$ gallons) of partly cooked onions instead of water. Cover. Cook until steaks are tender.

Portion: 1 (6-ounce) steak.

		100 P	ORTIONS	
Ingredients	WEIGHTS		Amounts (approx.)	
Beef, bone-in	Pounds 60	Ounces 		
Beef, boneless	42			
Flour	2		½ gallon	
Salt		6	3/4 cup	
Pepper	••••	1/2	13/4 tablespoons	
Fat	2		1 quart	•••••
Tomatoes	12	12	2 No. 10 cans $(6\frac{1}{2})$ quarts).	
Onions, sliced	6		4½ quarts	
Salt	n	1	2 tablespoons	
Flour (for gravy)	1		1 quart	
Water, cold		=		

Cut meat into 6-ounce steaks 1 to $1\frac{1}{2}$ inches thick.

Sift together flour, salt and pepper. Pound into steaks.

Cook steaks in fat until browned on both sides. Place in roasting pans.

Add tomatoes. Cover with onion slices. Sprinkle with 1 ounce salt.

Cover pans. Cook in slow oven (300°F.) 3 hours or until steaks are tender.

Drain liquid from Swiss steaks. Make a paste of flour and water. Stir into steak liquid. Cook until thickened. Pour over steaks. Reheat.

Variation

Spanish Beef Steaks

Add 6 pounds ($1\frac{1}{2}$ gallons) sliced or chopped green peppers to the tomatoes and onions. Prepare as for Swiss Steaks.

Portion: 10 ounces (approx. 1 cup).

		100 F	Dongrova	
INGREDIENTS	WEIGHTS		Amounts (approx.)	Portions
Beef, bone-in	Pounds 40	Ounces		
Beef, boneless	28			
Salt		6	3/4, cup	
Pepper		1/2	13/4 tablespoons	
Flour	1	8	1½ quarts	
Fat	1	8	1½ pints	
Beef Stock (page 251) or water.			4 gallons	
Peas, fresh or frozen	5		2½ quarts	
Tomatoes	12	12	2 No. 10 cans $(6\frac{1}{2})$ guarts).	
Onions, small, quartered	6		_ ′	
Carrots, sliced or cubed	6		1½ gallons	
Potatoes, cubed	12		2 gallons	
Celery, diced	5	•	11/4 gallons	
Flour (for gravy)	1		1 quart	
Water, cold	••••		1½ pints	
Salt, as desired	•			
Pepper, as desired				

Cut meat into 1 to 2-inch cubes.

Mix together salt, pepper and flour. Dredge meat in flour. Cook in fat until browned, stirring constantly.

Add 4 gallons stock or water. Cover. Let simmer $2\frac{1}{2}$ to 3 hours or until tender.

Cook peas in small amount of water 10 to 15 minutes. Drain.

Add remaining vegetables to meat mixture. Cook 40 to 45 minutes.

Blend together flour and water to a smooth

paste. Drain stock from meat and thicken with paste. Heat to boiling temperature stirring constantly. Add salt and pepper, as desired.

Pour gravy over meat and vegetables. Reheat. Garnish with cooked peas.

Variations

Ham or Lamb Stew

Use ham or lamb in place of beef. Do not flour ham. Omit salt if ham is used. Reduce cooking time to 2 hours for ham.

Beef, Ham or Lamb Pie with Biscuits

Place stew in baking pans. Cover with Biscuits (page 361) or biscuit crust. Bake in hot oven (425° F.) until browned.

Beef, Ham or Lamb Pie with Mashed Potato Crust

Place stew in baking pans. Cover with seasoned mashed potatoes. Bake in hot oven (425° F.) until browned.

Note.—Mashed sweet potatoes may be used for ham pie.

Beef, Ham or Lamb Stew with Dumplings Add dumplings or noodles 15 to 20 minutes before stew has finished cooking.

Beef, Ham or Lamb Pie with Pie Crust

Place stew in baking pans. Cover with pie crust. Bake in hot oven (425° F.) until browned.

Beef or Lamb Ragout

Prepare as beef stew. Omit vegetables except tomatoes, onions, green peppers and celery.

Paprika, Worcestershire sauce, bay leaves and parsley may be used for seasoning.

Beef, Ham or Lamb Stew with Rice

Prepare stew. Serve with cooked barley or cooked rice.

Beef or Lamb Stew, Spiced

Omit all vegetables in stew. Add $\frac{1}{2}$ gallon vinegar, 2 pounds ($\frac{1}{2}$ quarts) brown sugar, 1 ounce ($\frac{4}{2}$ tablespoons) cinnamon, 16 bay leaves and 1 pound ($\frac{1}{2}$ pints) sliced onions to the liquid covering meat.

Cover pans. Let simmer $2\frac{1}{2}$ to 3 hours or until meat is tender. Drain liquid from meat and serve as gravy.

BEEF FRICASSEE

Portion: 6 to 8 ounces.

Fortion. 6 to 8 ounces.			
INGREDIENTS		100 F	PORTIONS
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)
Beef, bone-in	Pounds 50	Ounces 	
Beef, boneless	35		
Salt		8	1 cup
Pepper		1	3½ tablespoons
Fat	4	••••	½ gallon
Beef Stock (page 251) or water.	F		1 gallon
Onions, chopped	5		33/4 quarts
Celery, chopped	3	- Pa.	3/4 gallon
Carrots, diced	3	,	3/4. gallon

Cut meat into 2-inch pieces.

Sprinkle with salt and pepper. Cook in fat until browned on all sides.

Add small amount of stock or water. Cover. Bake in moderate oven (350°F.) approximately 3 hours. Add more liquid as needed.

Add chopped vegetables about 40 to 45 min-

utes before meat has finished cooking.

Variation

Lamb Fricassee

Use same weight of lamb in place of beef. Prepare as for Beef Fricassee.

BEEF STEW

(Using roast beef, canned)

Portion: Approx. 8 ounces

Ingredients		100 P	ORTIONS
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)
Carrots, dehydrated	Pounds 1	Ounces	1 quart
Water, for carrots	- 1		3/4 gallon
Potatoes, diced, dehydrated	3		1 gallon
Water, for potatoes			1¾ gallons
Onions, dehydrated		10	11/4 quarts
Water, for onions		~ ~ -	2½ quarts
Beef, roast, canned	24		4 6-pound cans
Fat	2	• -	1 quart
Salt		5	10 tablespoons
Pepper		1/2	1¾ tablespoons
Worcestershire sauce		-	6 tablespoons.
Tomatoes	12	12	2 No. 10 cans $(6\frac{1}{2})$ quarts).
Meat Stock (page 251)			1½ quarts

Soak carrots in ¾ gallon water 45 minutes. Cover. Heat, slowly, to boiling temperature, about 45 minutes. Drain. Reserve liquid.

Soak potatoes in 13/4 gallons water 45 minutes. Cover. Heat, slowly, to boiling temperature, about 45 minutes. Drain. Reserve liquid.

Soak onions in $2\frac{1}{2}$ quarts water 20 minutes. Drain. Reserve liquid.

Cut beef into 1- to 11/2-inch pieces. Cook in

fat until browned. Add salt, pepper, Worcestershire sauce, tomatoes, and stock.

Add cooked carrots, potatoes, and onions. Heat to boiling temperature. Let simmer 20 minutes.

NOTE.—Meat stock may be made with 3/4 ounce powdered bouillon or 6 bouillon cubes dissolved in 11/2 quarts boiling water. Use liquid drained from vegetables.

Portion: 6 to 8 ounces.

Ingredients		100 F	PORTIONS
INGREDIENTS	Weights		AMOUNTS (approx.)
Beef, bone-in	Pounds 50	Ounces	
Beef, boneless	35		
Onions, chopped or sliced	5		3¾ quarts
Beef or bacon fat	1		1 pint
Garlic, minced	••••		3 cloves
Salt		4	½ cup
Paprika		1	4½ tablespoons
Tomatoes	12	12	2 No. 10 cans (6½ quarts).
Flour			

Cut meat into 1-inch cubes.

Cook onions in fat until clear. Add meat. Cook until browned.

Add garlic, if available, salt and paprika.

Add tomatoes. Cover pans tightly. Let simmer about 3 hours or until beef is tender. Add more liquid as needed.

Drain liquid from meat. Stir in enough flour to thicken slightly.

Combine gravy and meat. Reheat.

NOTE.—1. 11/4 gallons stock or water may be used in place of tomatoes.

2. Serve goulash with or on cooked rice.

Variation

Lamb or Veal Goulash

An equivalent amount of lamb or veal may be used in place of beef.

(Using roast beef, canned)

Portion: Approx. 8 ounces

Ingredients		100 P	PORTIONS
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)
Potatoes, diced, dehydrated	Pounds 4	Ounces	1½ gallons
Water, for potatoes	-	- 	4½ gallons
Onions, dehydrated	1		½ gallon
Water, for onions	5		1 gallon
Fat, melted	2	* * .	1 quart
Flour	2	2	4½ cups
Salt		4	½ cup
Pepper		1/2	13/4 tablespoons
Water, drained from vege-		-	2½ gallons
tables. Beef, roast, canned	30		5 6-pound cans
Pie Dough (page 399)	5		

Soak potatoes in 4½ gallons water 45 minutes. Cover. Heat, slowly, to boiling temperature, about 45 minutes. Drain. Reserve liquid.

Soak onions in 1 gallon water 20 minutes. Drain. Reserve liquid.

Blend fat, flour, salt, and pepper to a smooth paste. Stir into water drained from vegetables.

Heat to boiling temperature. Cook for 15 minutes or until thickened.

Cut beef into 1- to 1½-inch pieces. Add beef, beef juices, potatoes, and onions to gravy. Place in baking pans.

Roll pie dough 1/8 to 1/4 inch thick. Perforate. Place over beef mixture.

Bake in hot oven (450° F.) 15 to 20 minutes.

Note.—1. If water drained from vegetables does not measure $2\frac{1}{4}$ gallons, add additional water to make the quantity required.

2. Biscuits or Biscuit Dough (page 361) may be used in place of Pie Dough.

Variations

Luncheon Meat Pie

30 pounds (5 6-pound cans) luncheon meat, canned, may be used in place of beef, roast, canned.

KIDNEY AND BEEF PIE

Portion: Approx. 8 ounces.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Kidneys	Pounds 10	Ounces		
Water		****		
Beef, bone-in	35			
Beef, boneless	25	••••		
Salt		6	3/4 cup	
Pepper		1/2	1¾ tablespoons	
Flour	2		½ gallon	
Bacon fat or other fat	1	,	1 pint	
Water		••••	3½ quarts	
Biscuit Dough (page 361)				•

Slice kidneys. Wash in cold water.

Cover with water. Heat and let simmer in closely covered kettle about 45 minutes or until tender. Drain.

Cut meat into 1 to 2-inch pieces.

Combine salt, pepper and part of the flour. Dredge beef in flour mixture. Cook in fat until browned.

Add 3/4 gallon water. Bake in slow oven

 (300°F.) 1 to $1\frac{1}{2}$ hours or until tender.

Blend together remaining flour and water into smooth paste.

Drain liquid from beef. Thicken with paste.

Combine kidneys, beef, and gravy. Place in baking pans.

Cover with biscuit dough rolled ½ inch thick. Bake in hot oven (425°F.) 15 to 20 minutes or until top is browned.

Portion: Approx. 5 ounces.

		100 P		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Beef, bone-in	Pounds 45	Ounces 		
Beef, boneless	31	••••		
Onions, finely chopped	3	••••	3¾ quarts	
Celery, finely chopped	3	••••	3/4 gallon	
Bread crumbs, soft	5	••••	$2\frac{1}{2}$ gallons	
Salt	***	6	³ / ₄ , cup	
Pepper	****	1/2	$1\frac{3}{4}$ tablespoons	
Eggs, slightly beaten	4	12	48 (2½ quarts)	
Beef Stock (page 251)	****	••••	2 to 3 quarts	
Bacon fat				

Grind beef. Combine meat, onions, celery, bread crumbs, salt, pepper, eggs and stock. Mix lightly but thoroughly.

Shape into loaves, about 12 x 4 x 3 inches. Place in greased roasting pans.

Roast uncovered at constant temperature in slow oven (325° F.) 1½ hours or until done.

Note.—1. Meat, onions and celery may be ground together.

- 2. Serve with Tomato Sauce (page 218) or Barbecue Sauce (page 207).
- 3. Amount of beef stock used depends on quantity of moisture in the bread.

Portion: 2 (3½-ounce) patties.

Ingredients		100 H		
INGREDIENTS	WEIGHTS		Amounts (approx.)	Portions
Beef, bone-in	Pounds 55	Ounces		
Beef, boneless	38			
Onions, ground	5		33/4 quarts	
Salt		6	³ / ₄ cup	•
Pepper		1/2	1¾ tablespoons	
Water			2½ quarts	

Cut beef into cubes. Grind.

Combine beef with onions, salt, pepper and water. Mix together lightly, but thoroughly.

Shape into 3 to $3\frac{1}{2}$ -ounce patties 1 inch thick. Broil on heated griddle about 10 minutes or until the desired degree of doneness. Turn to insure even cooking.

NOTE.—1. Serve immediately with or without gravy, or Barbecue Sauce (page 207) or Tomato Sauce (page 218).

2. Barbecue Sauce or catsup may be used for part or all of the water in recipe.

Variations

Lamburgers

Use lamb in place of beef.

Baked Beefburgers or Lamburgers

Prepare uncooked beefburgers or lamburgers. Arrange in baking pans. Cook uncovered without turning, in slow oven (325°F.) about 45 minutes or to desired degree of doneness.

BEEF AND PORK LOAF

Portion: Approx. 6 ounces.

		100 P	ORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Beef, ground	Pounds 25	Ounces 	
Pork, ground	6	••••	
Eggs, slightly beaten	1	••••	10 (1 pint)
Rolled oats, cooked			2 gallons (2½ lbs. A. P.).
Onions, chopped fine	1	****	1½ pints
Salt	••••	6	3/4. cup
Pepper		1/4.	1 tablespoon

Combine ingredients. Mix thoroughly. Pack lightly into greased loaf pans.

Bake in slow oven (325° F.), at constant temperature, about $1\frac{1}{2}$ hours or until there is no trace of pink meat left.

Remove from pans. Slice and serve hot.

NOTE.—1. Use liquid from meat loaf for gravy.

2. Serve with Barbecue Sauce (page 207) or Tomato Sauce (page 218).

Variation

Ham and Beef Loaf

Use ground smoked ham in place of pork.

BEEF LOAF

(Using roast beef, canned)

Portion: Approx. 7 ounces

Ingredients		100 P	PORTIONS
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)
Onions, dehydrated	Pounds	Ounces 8	1 quart
Water, for onions.	-		½ gallon
Milk, powdered, whole		10	2½ cups
Water, for milk			2½ quarts
Eggs, powdered, whole		14	3½ cups
Water, for eggs			1½ quarts
Beef, roast, canned	36		6 6-lb. cans.
Bread crumbs	3	12	4½ quarts
Salt		31/2	7 tablespoons
Pepper	l =:	1/4	1 tablespoon

Soak onions in ½ gallon water 20 minutes.

Stir powdered milk into $2\frac{1}{2}$ quarts water until completely dissolved.

Sprinkle powdered eggs into $1\frac{1}{2}$ quarts water, stirring constantly to avoid lumping. Mix until smooth.

Grind beef coarsely or break into very small pieces.

Combine all ingredients. Mix together thoroughly. Pack-into greased loaf pans.

Bake in moderate oven (350° F.) 30 to 45 minutes.

NOTE.—Serve with Spanish Sauce (page 217), Tomato Sauce (page 218), or Tomato Puree Sauce (page 219).

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BEEF CHEESEBURGERS

Portion: 2 buns with approx. 5 ounces beef and 11/4 ounces cheese.

		100 P		
Ingredients	WEI	GHTS	Amounts (approx.)	Portions
Beef, bone-in	Pounds 45	Ounces 		
Beef, boneless	31			
Salt		6	3/4 cup	
Pepper	****	1/2	13/4 tablespoons	
Buns, round		****	200	
Cheese, American cheddar, sliced.	10			
Mayonnaise (page 237)	4		½ gallon	
Pickle relish	2		1 quart	

Cut beef into small pieces. Grind. Combine meat with salt and pepper. Mix well.

Form into 200 flat patties, $2\frac{1}{2}$ ounces each or 5 to the pound.

Broil on heated griddle, or oven-broil until the desired degree of doneness.

Split and toast buns. Spread top halves with

mayonnaise. Cover lower halves with slice of cheese.

Place lower half under broiler or in moderate oven (350° F.) until cheese is melted.

Cover cheese with hot meat pattie. Spread with relish. Cover with top half of bun.

Serve immediately.

GRIDDLE-BROILED SALISBURY STEAKS

Portion: 2 (3½-ounce) patties.

		100 P		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Beef, bone-in OR	Pounds 45	Ounces 		
Beef, boneless	31			
Bread crumbs, soft	7	****	3½ gallons	
Onions, ground or grated	6		33/4 quarts	
Salt		6	³ / ₄ cup	
Pepper		1/4.	3/4 tablespoon	
Beef Stock (page 251), water OR			³ / ₄ gallon	
Milk, liquid			23/4. quarts	

Cut beef into small pieces. Grind.

Mix together all ingredients lightly, but thoroughly.

Shape into 3 to 3½-ounce patties 1 inch thick. Broil on heated griddle about 12 minutes or until the desired degree of doneness. Turn to insure even cooking. Serve immediately.

NOTE.--1. Barbecue Sauce (page 207) or catsup may be used for part or all of the water.

2. Serve beef patties with Brown Gravy (page 212) if desired.

BEEF MEAT BALLS

Portion: 4 (2-ounce) meat balls.

		100 P	ORTIONS	Portions
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	
Bread, dry	Pounds 6	Ounces 	1½ gallons	
Water			As needed	
Beef, bone-in	45	••••		
OR Beef, boneless	31			
Eggs, whole	1	••••	10 (1 pint)	
Onions, chopped fine	5	••••	33/4 quarts	
Salt		6	3/4 cup	·····
Pepper		1/2	13/4 tablespoons	
Beef Stock (page 251)			1 quart	

Soak bread in water. Press out water and discard.

Cut beef into small cubes. Grind.

Mix bread and ground meat together with remaining ingredients lightly, but thoroughly.

Form into 2-ounce meat balls (8 balls to 1 pound).

Place in greased baking pans. Bake in hot oven (400°F.) until browned on all sides.

Add small amount of stock. Cover pans

tightly.

Bake in slow oven (300°F.) about 30 minutes.

NOTE —Serve with Brown Gravy (page 212) or Tomato Sauce (page 218).

Variation

Veal Meat Balls

Use veal in place of beef.

BEEF PATTIES WITH TOMATO PUREE SAUCE

(Using roast beef, canned)

Portion: 5 to 6 ounces with sauce.

		100 P	PORTIONS
Ingredients	Weights		Amounts (approx.)
Onions, dehydrated	Pounds	Ounces 4	1 pint
Water for onions			1 quart
Beef, roast, canned	36		6 6-pound cans
Bread crumbs, dry	5	8	13/4 gallons
Eggs, powdered	1	2	1½ quarts
Mustard, dry		2	½ cup
Salt		3	6 tablespoons
Pepper		1/2	13/4 tablespoons
Fat, melted	1		1 pint
Tomato Puree Sauce, hot (page 219).			2½ gallons

Soak onions in 1 quart water 20 minutes. Drain.

Grind beef with fine blade on grinder, or break into fine pieces. Add bread crumbs, eggs, mustard, onions, salt, and pepper. Mix thoroughly.

Shape into 5-ounce patties. Place in single layer in greased roasting pans. Brush with melted fat.

Bake in moderate oven (350° F.) 20 minutes. Pour hot Tomato Puree Sauce over patties. Continue cooking 10 minutes.

MEAT SAUCE FOR SPAGHETTI

Yield: Approx. 5 gallons.

Portion: 3/4 to 1 cup.

		100 P	Decrees	
Ingredients	WEI	GHTS	AMOUNTS (approx.)	PORTIONS
Bacon drippings	Pounds	Ounces 4	½ cup	
Onions, minced	5		33/4 quarts	
Celery, diced	1	4	11/4 quarts	
Garlic, mashed		5		
Beef, coarsely ground	20			
Parsley		1/2	1 cup	
Salt		6	³ / ₄ cup	
Pepper		1	3½ tablespoons	
Mushrooms, sliced	1	4	21/4 quarts	
Tomatoes	19	2		
Tomato juice	6			
Tomato paste Beef Stock (page 251)	7	2	lon).	

Cook together slowly bacon drippings, onions, celery and garlic until thoroughly browned. Cook beef until browned. Add onion mixture. Place in steam-jacketed kettle.

Stir in parsley, salt, pepper and mushrooms. Add tomatoes, tomato juice, tomato paste and stock.

Mix ingredients thoroughly. Let simmer 3

hours.

Combine with hot cooked spaghetti. Let stand 10 to 15 minutes before serving.

Note.—1. 1 No. 10 can $(\frac{3}{4}$ gallon) tomato puree may be used in place of tomato paste.

2. Garlic salt may be used in place of clove of garlic. Reduce salt, to taste.

MEAT SAUCE AND SPAGHETTI

(Using roast beef, canned)

Portion: Approx. 7 ounces.

		100 F	PORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Onions, dehydrated	Pounds	Ounces 8	1 quart	
Water, for onions			½ gallon	
Bacon, sliced	2			
Beef roast, canned	12		2 6-lb. cans	
Flour		5	1½ cups	
Salt		2	½ cup	
Pepper.		1	3½ tablespoons	
Tomatoes	12	12	2 No. 10 cans (6½ quarts).	
Worcestershire sauce			3 tablespoons	
Salt		21/2	5 tablespoons	
Water, boiling			3½ gallons	
Spaghetti	- 8			

Soak onions in water 20 minutes.

Cut bacon into 1-inch pieces. Fry until brown. Remove bacon from fat.

Break beef into small pieces. Add meat and onions to fat. Cook until browned.

Stir flour, 2 ounces salt and pepper into meat mixture until thoroughly blended.

Heat tomatoes to boiling temperature. Add to

meat mixture. Add bacon and Worcestershire sauce.

Let simmer 20 to 30 minutes or until mixture thickens.

Add 2½ ounces salt to water. Heat to boiling temperature. Stir in spaghetti. Cook 20 minutes or until tender. Drain well.

Pour hot sauce over spaghetti. Let stand 10 minutes before serving.

BEEF STUFFED PEPPERS

Portion: 1 pepper (approx. 1 cup (8 ounces) filling).

		100 P		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Peppers, green, large	Pounds	Ounces 	100	
Water, boiling.			To cover	
Salt		4	½ cup	
Bread crumbs	8		2½ gallons	
Rice, cooked	13	8	2 gallons	
Onions, chopped	2	8	½ gallon	
Salt		2	1/4 cup	
Pepper		1/4	1 tablespoon	
Beef, cooked, chopped	21		4 gallons	
Beef Stock (page 251)			½ gallon	

Select peppers of uniform size. Wash and cut into halves. Remove seeds and white membrane.

Cover with boiling water. Add ½ cup salt. Cook 3 to 5 minutes. Drain.

Mix bread or rice with onions, salt and pepper.

Add chopped beef and stock. Mix thoroughly. Fill pepper halves. Place in greased baking pans.

Bake in moderate oven (350° F.) 20 to 30 minutes.

NOTE.—1. The amount of meat stock necessary depends on dryness of bread. Use only

enough to moisten the bread.

2. Serve with Tomato Sauce (page 218).

Variation

Pork, Ham, Veal, Chicken or Turkey Stuffed Peppers

The same weight of pork, ham or veal and other ingredients may be used in place of beef for Stuffed Peppers.

Use 12 pounds of chicken or turkey with 6 pounds of pork or veal.

Omit salt when ham is used.

BEEF CHILI CON CARNE

Portion: 8 ounces (approx. 1 cup).

INGREDIENTS 100 P			ORTIONS	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Chili beans, small red	Pounds 6	Ounces 12	1 No. 10 can (3/4 gal-	
Beef, bone-inOR	35			
Beef, bonelessOR	25	••••		
Beef, cooked	18			
Garlic, crushed		****	4 cloves	
Beef fat	1	••••	1 pint	
Beef Stock (page 251)			2 gallons	
Pepper, cayenne	****	••••	1 tablespoon	
Chili powder		3	1½ cups	
Salt		6	3/4 cup	
Tomatoes	6	6	1 No. 10 can (3/4 gallon).	

Press ½ of beans through food chopper. Leave remainder whole.

Cut meat into 1/2-inch cubes or grind.

Cook crushed garlic in fat until yellow. Add meat. Cook until brown.

Add enough stock to cover. Stir in cayenne pepper, chili powder and salt.

Cover pans tightly. Let simmer 3 hours or until meat is tender. Add remainder of stock as

needed to keep meat covered.

Mix ground beans, remaining whole beans and tomatoes with meat. Heat to boiling temperature. Serve immediately.

Variation

Veal Chili Con Carne

Veal may be used in place of beef.

BEEF WITH SPANISH RICE

(Using roast beef, canned)

Portion: Approx. 6 ounces.

		100 F	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Onions, dehydrated	Pounds 1	Ounces	½ gallon
Water, for onions			1 gallon
Fat, melted	1	8	1½ pints
Rice, uncooked	6		3/4 gallon
Beef, roast, canned	12		2 6-pound cans
Tomatoes	25	8	4 No. 10 cans (3½ gal-
Water, boiling			lons).
Salt.		3	6 tablespoons
Pepper		1/4	1 tablespoon

Soak onions in 1 gallon water 20 minutes. Cook in fat until clear.

Wash rice. Drain well.

Cut beef into 1-inch pieces: Combine beef, beef juices, onions, rice, tomatoes, water, salt, and pepper. Mix well.

Heat to boiling temperature. Let simmer 30 to 40 minutes or until rice is tender, adding more liquid as mixture thickens, if needed.

Variations

Corned Beef with Spanish Rice

Use 12 pounds beef, corned, canned, in place of beef, roast, canned.

Ham with Spanish Rice

Use 12 pounds left-over or trimmings from whole ham, canned, in place of beef, roast, canned.

Vienna Sausage with Spanish Rice

Use 12 pounds sausage, Vienna style, canned, cut in $\frac{1}{2}$ -inch pieces or ground coarsely in place of beef, roast, canned.

Luncheon Meat with Spanish Rice

Use 12 pounds luncheon meat, canned, cut into 1-inch pieces or ground coarsely in place of beef, roast, canned.

BEEF STUFFED CABBAGE ROLLS

Portion: 2 (3-ounce) rolls.

		100 P		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Beef, ground	Pounds 20	Ounces 		
Salt		5	10 tablespoons	•
Pepper		1/2	13/4 tablespoons	
Onions, minced	2		1½ quarts	
Rice, uncooked	3	****	1½ quarts	
Cabbage leaves, fresh, large	****		200	
Beef Stock (page 251)			2½ gallons	

Combine meat, salt, pepper, onions and rice thoroughly and shape into 200 loosely formed balls.

Dip cabbage leaves into boiling water or soften slightly in steamer, so they will roll.

Wrap each meat and rice roll securely in a cabbage leaf.

Place in baking pans. Add beef stock.

Cover. Bake in moderate oven (350° F.) 1½ hours or until rice is cooked.

NOTE.—1. 21/4 gallons tomato juice may be used in place of beef stock.

2. An excellent way to use cabbage and vary the use of ground meat.

SLICED DRIED BEEF AND MACARONI

Portion: 8 ounces (approx. 1 cup).

		100 P	Parameter	
Ingredients	Weights		AMOUNTS (approx.)	Portions
Salt	Pounds	Ounces 2	½ cup	
Water, boiling			4½ gallons	
Macaroni, uncooked	4	8	5½ quarts	
Beef, dried, sliced	8	•	2 gallons	
Milk, liquid		••••	5 gallons	
Fat, melted	2		1 quart	
Flour	2		½ gallon	
Pepper		1/2	13/4 tablespoons	
Cheese, American cheddar, shredded.	4		1 gallon	

Add salt to water. Heat to boiling temperature. Stir in macaroni. Heat to boiling temperature.

Cook about 20 minutes or until macaroni is tender. Drain.

Cut beef into small pieces. Heat milk to boiling temperature.

Blend together fat and flour to a smooth

paste. Stir into milk. Cook, stirring constantly, until thickened.

Add pepper. Stir in dried beef. Let simmer 10 minutes. Add cheese.

Stir until cheese is completely melted. Serve creamed beef over macaroni.

Note.—Soak meat in warm water 15 to 20 minutes if too salty.

DICED BEEF IN BROWN SAUCE

Portion: 8 ounces (approx. 1 cup).

		100 P		
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	Portions
Onions (optional), chopped	Pounds 5	Ounces 	33/4 quarts	
Beef fat, melted	2		1 quart	
Flour	2	••••	½ gallon	
Beef Stock (page 251)			3 gallons	
Beef, cooked, diced	23		41/4 gallons	
Salt, as desired	••••			
Pepper, as desired	••••	•		
Bread, toastedOR		••••	100 slices	
Rice, cooked	20	8	4 gallons	

Cook onions in fat until clear. Stir in flour and mix thoroughly. Cook until flour is browned, stirring constantly.

Heat stock to boiling temperature. Add gradually to flour mixture, stirring constantly. Cook until mixture boils vigorously. Remove from heat.

Add diced beef, salt and pepper as desired. Reheat.

Serve over toast or cooked rice.

Note.—1. Beef may be either roast, pot roast or steak.

2. Lamb may be used in place of beef.

CREAMED SLICED DRIED BEEF

Portion: 8 ounces (approx. 1 cup).

Tyronyourg		100 P	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Beef, dried, sliced	Pounds 7	Ounces	1¾ gallons
Milk, liquid			5 gallons
Fat, melted	2		1 quart
Flour	2	8	2½ quarts
Pepper		1/2	13/4 tablespoons
Bread, toasted			100 slices

Cut beef into small pieces. Heat milk to boiling temperature.

Blend together fat and flour to a smooth paste. Stir into milk.

Cook, stirring constantly, until thickened.

Add pepper. Stir in beef.

Let simmer about 10 minutes. Serve over toast.

Note.—Soak meat in warm water 15 to 20 minutes if too salty.

SLICED DRIED BEEF SCALLOPED WITH POTATOES

Portion: 12 ounces (approx. 1½ cups).

		100 P	ORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beef, dried, sliced	Pounds 8	Ounces 	2 gallons	
Potatoes, A.P.	48			
Onions, chopped	2		1½ quarts	
Flour		12	1½ pints	
Salt		6	3/4 cup	
Pepper		1/4	3/4 tablespoon	
Butter or other fat, melted	1	8	1½ pints	
Milk, liquid			2½ gallons	

Cut beef into small pieces.

Peel potatoes. Slice in 1/16 to 1/8-inch slices.

Arrange dried beef, potatoes and onions in alternate layers in baking pans.

Mix together flour, salt and pepper. Sprinkle

over beef mixture.

Pour melted butter over beef. Pour milk over mixture.

Bake in moderate oven (375°F.) about 1 hour or until potatoes are soft.

BEEF CROQUETTES

Portion: 2 croquettes.

		100 P	ORTIONS	P
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Beef, cooked, ground	Pounds 25	Ounces 	3 gallons	
Salt		2	½ cup	
Pepper		1/4	1 tablespoon	
Onions, finely chopped	5		3¾ quarts	
Fat	2	8	11/4 quarts	
Flour	2		½ gallon	
Beef Stock (page 251), hot			½ gallon	
Eggs, slightly beaten	3		30 (1½ quarts)	
Bread crumbs	5		1½ gallons	
Milk, liquid			1 quart	
Eggs, beaten	1		10 (1 pint)	
Flour				
Bread crumbs				

Combine ground beef, salt and pepper.

Cook onions in fat until clear.

Add 2 pounds flour. Mix thoroughly. Stir into heated stock gradually, stirring constantly. Heat to boiling temperature.

Cool. Stir in eggs and bread crumbs. Add beef and mix thoroughly.

Chill in refrigerator until firm.

Mix together milk and eggs.

Shape meat into croquettes. Roll in flour. Dip into egg and milk mixture. Roll in crumbs.

Fry in hot deep fat at 375° F. 4 to 5 minutes

or until evenly browned on all sides. Serve immediately.

Note.—Lamb or veal may be used in place of beef.

Variation

Beef, Lamb or Veal "Croquette" Loaf

Place "croquette" mixture in well greased baking pans. Bake in slow oven (325° F.) 45 to 60 minutes.

Cut in squares or slices for serving.

Portion: 8 ounces (approx. 1 cup).

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beef, boneless, cooked, diced	Pounds 23	Ounces	41/4 gallons	
Potatoes, cooked, diced	20		3 gallons	
Onions, chopped	5		33/4 quarts	
Salt	1	4	½ cup	
Pepper		1/4.	3/4 tablespoon	
Beef Stock (page 251)	****		2 gallons	

Combine meat, potatoes, onions, salt, pepper and stock. Mix well.

Spread mixture in well greased baking pans. Bake in slow oven (325° F.) about 1 hour.

Cut hash into squares for serving.

NOTE.—1. Fresh ground beef may be used to make up the deficiency if there is not sufficient cooked beef. Increase the cooking time. Use \frac{1}{3} more uncooked boneless meat than cooked, to allow for shrinkage.

- 2. 24 pounds (4 6-pound cans) beef, roast, canned, or beef, corned, canned, may be used.
- 3. Barbecue Sauce (page 207) may be used in place of beef stock.

Variations

Baked Tongue Hash

The same weight tongue, canned, may be used in place of beef.

Baked Lamb, Pork, Veal, Ham, Chicken or Turkey Hash

The same weight of cooked lamb, pork, ham or veal, or 15 pounds cooked chicken or turkey may be used in place of beef. Omit salt in ham hash.

Baked Corned Beef Hash

The same weight of cooked corned beef, diced, may be used in place of beef.

Baked Luncheon Meat Hash

The same weight luncheon meat, canned, may be used in place of beef.

Portion: 5 to 6 ounces.

	ì.	100 F		
INGREDIENTS	WE	IGHTS	Amounts (approx.)	PORTIONS
Tongue, fresh or smoked	Pounds 60	Ounces 		
Water				•

Cover tongues with water. Heat to boiling temperature.

Cover tightly. Let simmer 3 to 4 hours or until tongues are tender. Drain.

Plunge into cold water. Remove skin and trim base of tongues.

NOTE.—1. Cool tongues in water in which they were cooked if served cold. If tongues are to be served hot, trim and return to cooking water. Reheat.

- 2. Add 6 ounces (3/4 cup) salt to water for cooking fresh tongue.
- 3. Spices and chopped vegetables such as onions, carrots and green peppers may be added for seasonings.

4. Slice tongue, hot or cold. Serve with Horse-radish Sauce (page 210).

Variation

Tongue A La Maryland

Prepare tongue. Remove skin. Reheat with canned cherries to which spices and bay leaves have been added. Serve hot.

Breaded Tongue

Use prepared tongue, fresh or canned. Slice. Dip in breading. Pan-fry until browned.

Tongue with Raisin Sauce

Use hot prepared tongue, fresh or canned. Slice. Serve with Raisin Sauce (page 216).

BRAISED BEEF HEARTS

Portion: 5 to 6 ounces.

Ingredients		100 P		
	Wo	GHTS	Amounts (approx.)	Portions
Hearts, beef	Pounds 40	Ounces		
Onions, minced	1	****	1½ pints	
Beef drippings		12	1½ cups	
Salt	••••	6	3/4 cup	
Pepper		1/2	13/4 tablespoons	
Carrots, diced	1	••••	1 quart	
Beef Stock (page 251)			2 gallons	
Flour		41/2	11/4 cups	
Water			1½ cups	

Wash hearts. Remove arteries, veins and valves. Wash.

Cook onions in beef drippings until clear.

Place hearts in roasting pan. Add onions and drippings, salt, pepper, carrots and stock. Cover tightly. Simmer or bake in slow oven (300° F.)

3 to 4 hours or until tender.

Strain liquid from hearts. Blend flour and water to a smooth paste. Stir into liquid from meat. Cook until thickened, stirring constantly.

Carve hearts across grain. Serve with gravy.

BEEF HEARTS STUFFED AND BRAISED

Portion: Approx. 8 ounces.

		100 P		
INGREDIENTS	WEIGHTS		Amounts (approx.)	Portions
Hearts, beef	Pounds 35	Ounces 		
Salt		6	³ / ₄ cup	
Pepper		1/2	13/4 tablespoons	
Onions, chopped		5	1 cup	
Celery, diced	1		1 quart	
Fat	1	8	1½ pints	
Bread crumbs, soft, coarse	8		4 gallons	
Poultry seasoning (optional)		1		
Eggs, slightly beaten	1	8	15 (1½ pints)	
Beef Stock (page 251), hot				

Wash hearts in warm water. Remove arteries, veins and valves. Drain and sprinkle inside with 3 ounces salt and 1/4 ounce pepper.

Cook onions and celery in 1 pound fat. Add bread crumbs, remaining salt, pepper and poultry seasoning. Remove from heat.

Add slightly beaten eggs and enough hot stock to moisten. Mix lightly. Fill hearts with hot stuffing. Pack loosely. Tie or sew, if needed.

Cook hearts in remaining fat until browned. Place in roasting pans. Add just enough stock to cover bottom of pan. Cover tightly.

Bake in slow oven (300°F.) 3 to 4 hours or until tender. Add more stock during cooking if necessary.

Remove hearts. Slice across grain in ½-inch slices so stuffing will be in center of slice.

NOTE.—1. Serve with Brown Gravy (page 212) if desired.

- 2. Fruit Dressing (page 199) may be used to stuff hearts.
- 3. Hearts may be rolled in flour before frying, if desired.
- 4. 1 ounce ($\frac{1}{3}$ cup) parsley, finely chopped, may be added to dressing.

CORNED BEEF, BAKED

Portion: 5 to 6 ounces.

		100 P		
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	Portions
Corned beef, canned	Pounds 35	Ounces 		
Beef Stock (page 251)				

Place corned beef in roasting pans. Add enough stock to cover bottom of pan. Cover. Cook in slow oven (325° F.) 30 minutes.

NOTE.—Barbecue Sauce (page 207) may be used in place of stock.

Yield: Approx. 55 pounds.

		100 P	7	
INGREDIENTS	WEIGHTS		Amounts (approx.)	PORTIONS
Beef	Pounds 50	Ounces 		
Salt	4		½ gallon	
Sugar, brown	1	8	4½ cups	
Saltpeter		11/2		
Water			2½ gallons	

Select fresh meat, preferably covered with fat layers, from brisket, plate, chuck or round.

Cut into 5 to 6-pound pieces of uniform size. Cover bottom of thoroughly clean curing vat with a ¼-inch layer of salt.

Arrange alternate layers of meat and salt in vat, covering top layer of meat with a thick layer of salt. Pack meat as closely as possible.

Heat water to boiling temperature. Add sugar and saltpeter, stirring until dissolved.

Cool liquid until lukewarm. Pour over meat. Keep meat entirely under brine. Weight down with loose cover. Store in refrigerator at 34° F. to 38° F.

Repack meat on the 4th and 8th days, reversing the individual pieces and the order of the cuts, so that the curing mixture will penetrate the meat evenly. Let meat stand 15 to 20 days.

NOTE.—1. A clean wooden tub or barrel, earthenware crock or galvanized curing vat may be used.

- 2. Corned Beef is ready for use after 10 days, but 15 to 20 days is preferable for curing.
 - 3. Keep meat in brine until used.
- 4. Use only fresh meat for corning. Meat which has begun to spoil is unwholesome and will probably sour during corning process.

CORNED BEEF SCRAMBLE

Portion: 6 to 8 ounces (approx. 1 cup).

		100 P		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Corned beef, canned	Pounds 20	Ounces 		
Peppers, green	1	••••	1 quart	
Onions	1	••••	1½ pints	
Fat, melted		8	1 cup	
Corn, whole kernel, drained	13	4		
Rice, cooked (page 44)	27	•	gallons). 4 gallons	

Chop together corned beef, green peppers and onions.

Cook in fat until corned beef is browned, stirring frequently.

Stir in corn and cooked rice. Heat thoroughly. If necessary add the liquor from corn.

Serve in mounds.

Portion: 4 to 5 ounces.

		100 P		
Ingredients	WEI	GHTS	Amounts (approx.)	Portions
Beef, corned, boneless	Pounds 42	Ounces 		
Water, cold				

Cut meat into 5-pound pieces.

Place in kettle without stacking or overlapping. Cover with cold water.

Heat to boiling temperature. Let simmer 4 to 6 hours or until meat is tender. Add cold water from time to time to solidify fat.

Skim grease from top of water to prevent possibility of discoloration.

Test each piece of meat for doneness after $3\frac{1}{2}$ to 4 hours of cooking. Remove each piece as soon as it is tender, to prevent overcooking.

Submerge all pieces in cold water fat side down, at least 15 minutes, to bleach and solidify fat and prevent shrinkage.

Serve immediately. If necessary to hold several hours, immerse pieces in lukewarm, mildly salted water at temperature of 98°F.

NOTE.—1. Equipment may be such that cold water can be added to the vats or kettles which overflow into a trap, thereby automatically

skimming the cooking water.

2. Pieces of exactly the same size may vary 15 minutes in cooking time.

Variation

New England Boiled Dinner

Peel and cut into about 1-inch cubes 10 pounds turnips, 10 pounds carrots, 10 pounds parsnips and 20 pounds potatoes. Add to corned beef and let simmer in the stock 20 to 25 minutes before beef is done. Add 20 pounds cabbage, washed and cut into small wedges, 10 to 15 minutes before meat is done. Cook uncovered.

NOTE.—1. Small white onions, whole and peeled, may be added together with turnips, carrots, parsnips and potatoes.

2. Vegetables, if small-sized, may be left whole, halved or quartered, instead of being cut into 1-inch cubes. Add about 5 minutes to cooking time.

CORNED BEEF HASH, BAKED

Portion: 6 to 8 ounces.

		100 P	Portions	
INGREDIENTS	WEIGHTS			Amounts (approx.)
Corned beef hash, canned	Pounds 50	Ounces 		
Beef Stock (page 251)				

Place corned beef hash in roasting pans. Add enough stock to cover bottom of pan. Cover.

Heat in slow oven (325° F.) 30 minutes.

Variations

Corned Beef Hash and Tomatoes

Combine 40 pounds corned beef hash and $12\frac{3}{4}$ pounds ($6\frac{1}{2}$ quarts) tomatoes. Heat thoroughly about 45 minutes.

Corned Beef Hash with Eggs

Remove 35 pounds corned beef hash from

cans. Slice. Place in greased roasting pans. Bake in slow oven (325° F.) 30 minutes.

Fry eggs for 100 portions. Place 1 egg on top of each slice of hash and serve.

NOTE.—Hash may be shaped into mounds for individual servings. Place in well greased pans. Press a cavity in top.

Drop 1 egg into each cavity with small amount of butter. Sprinkle with salt and pepper.

Bake in slow oven (325° F.) until eggs are cooked and hash is browned.

BAKED CORNED BEEF WITH MASHED POTATOES

(Using corned beef, canned)

Portion: Approx. 5 ounces.

		100 F	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Milk, powdered, whole	Pounds 1	Ounces 	3½ cups
Water, for milk			3/4 gallon
Onions, dehydrated		4	1 pint
Water, for onions			1 quart
Potatoes, diced, dehydrated	5		7½ quarts
Water, for potatoes			3 gallons
Butter, melted	1		1 pint
Salt		1	2 tablespoons
Beef, corned, canned	18		3 6-pound cans
Bread crumbs, dry	1	8	½ gallon
Eggs, powdered, whole		6	1½ cups

Stir milk into ¾ gallon water until completely dissolved.

Soak onions in 1 quart water 20 minutes.

Soak potatoes in 3 gallons water 45 minutes. Cover. Heat, slowly, to boiling temperature about 45 minutes. Let simmer until tender. Drain. Reserve liquid.

Mash potatoes until smooth. Stir in, slowly, butter, salt and ½ gallon milk. Beat thoroughly. Keep hot.

Break corned beef into small pieces. Add bread crumbs, powdered eggs, onions and remaining 1/4 gallon milk.

Place beef mixture in greased roasting pans in layers 2 inches deep. Cover with layer of mashed potatoes.

Bake in moderate oven (350° F.) 30 minutes or until browned.

NOTE.—1. Use liquid drained from potatoes as part of water to reconstitute milk.

2. The amount of milk used in mashed potatoes may vary. Use only enough to make mashed potatoes of proper consistency.

CORNED BEEF AND SPAGHETTI WITH CHEESE

Portion: Approx. 8 ounces.

(Using corned beef, canned)

		100 P	PORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Salt	Pounds	Ounces $2\frac{1}{2}$	5 tablespoons
Water, boiling		-1-	4 gallons
Spaghetti	5		
Salt		2	1/4 cup
Pepper		1/4	1 tablespoon
Tomatoes	12	12	2 No. 10 cans (6½)
Beef, corned, canned	12		quarts). 2 6-pound cans
Cheese, sliced	1	8	

Add 2½ ounces salt to water. Heat to boiling temperature. Stir in spaghetti.

Cook 20 minutes or until tender. Drain well. Add 2 ounces salt and pepper to tomatoes. Heat to boiling temperature.

Cut corned beef into ¼-inch slices. Place in bottom of greased baking pans.

Cover with layer of spaghetti. Pour tomatoes over entire surface.

Arrange slices of cheese over top of tomatoes. Bake in moderate oven (350° F.) 30 to 45 minutes.

Variations

Roast Beef and Spaghetti With Cheese

Use 12 pounds (2 6-pound cans) beef, roast, canned, in place of 12 pounds beef, corned, canned.

Luncheon Meat and Spaghetti With Cheese

Use 12 pounds (2 6-pound cans) luncheon meat, canned, in place of 12 pounds beef, corned, canned.

Portion: Approx. 5 ounces.

		100 F	Decrees	
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Lamb, bone-in	Pounds 60	Ounces 		
Lamb, boneless	42			
Salt	•	8	1 cup	
Pepper		1	3½ tablespoons	

Use legs, loins, rack and shoulders cut into 4 to 6-pound pieces.

Rub with salt and pepper.

Place, fat side up, in roasting pans. Fill pans, without stacking or crowding roasts.

Roast, uncovered, at constant temperature in slow oven (325°F.) about 4 hours. Allow 40 to 45 minutes per pound. Cook without water.

Remove roasts from pans. Carve across the grain in thin slices.

Note.—1. Serve lamb very hot or thoroughly chilled. It is not palatable when lukewarm.

- 2. Serve roast lamb with gravy.
- 3. Lamb roasts may be rubbed with garlic for additional flavor.

BRAISED LAMB

Portion: 4 to 5 ounces.

		100 F		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Lamb, bone-in	Pounds 60	Ounces 		
Lamb, boneless	42			
Lamb fat or other fat	••••	8	1 cup	
Salt	****	6	3/4 cup	
Pepper		1/2	13/4 tablespoons	
Meat Stock (page 251) or water, hot.	••••		1 quart	
Onions, chopped (optional)	5	****	33/4 quarts	

Cut lamb into 4 to 6-pound pieces.

Cook, in fat, until lamb is browned on all sides. Turn to insure even browning.

Add salt, pepper and small amount of stock or water and chopped onions, if desired.

Let simmer, in tightly covered kettle, or cook

in slow oven (300° F.) 3 hours or until tender. Turn meat several times while cooking. Add small amounts of liquid, as needed.

Remove meat from pans. Slice across the grain in thin slices. Keep hot.

Note.—Serve with Brown Gravy (page 212).

Variations

Lamb A La Mode

Add 3 pounds (¾ gallon) diced carrots, 2 pounds (1½ quarts) diced onions, and 1 No. 10 can (3¼ quarts) tomatoes to the braised lamb 30 to 45 minutes before meat is done. Serve the vegetables in the gravy as a sauce.

Lamb Braised with Vegetables

Use 45 pounds bone-in or 31 pounds boneless lamb. Add 3 pounds each of sliced carrots, onions, celery and turnips to braised lamb allowing 40 to 45 minutes for cooking before meat (roast) is done.

GRIDDLE-BROILED LAMB CHOPS

Portion: 2 (approx. 4-ounce) chops.

		100 P		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Lamb, bone-in	Pounds 65	Ounces 		
Salt		6	3/4 cup	
Pepper		1/2	13/4 tablespoons	

Cut lamb into 4-ounce chops 3/4 inch thick.

Broil on heated griddle. Turn to insure even cooking. Cook until browned on both sides and desired degree of doneness is obtained. Avoid overcooking. Place in slow oven (300° F.) until ready to serve.

Sprinkle with salt and pepper just before removing from oven. Serve immediately.

Note.—1. Chops may be cooked until browned on both sides on heated griddle, then stacked on end in open baking pans, placed in slow oven (300° F.) and cooked to desired degree of doneness.

- 2. If meat is lacking in fat, grease the griddle with fat to prevent sticking.
 - 3. Lamb chops should be served very hot.

FRIED LAMB CHOPS

Portion: 2 (4-ounce) chops.

		100 P	P-11 DEAL	
INGREDIENTS	Weights ·		Amounts (approx.)	Portions
Lamb, bone-in	Pounds 65	Ounces 		
Salt		6	3/4 cup	
Pepper	****	1/2	13/4 tablespoons	
Lamb or other fat	2		1 quart	

Cut lamb into 4-ounce chops $\frac{1}{2}$ to $\frac{3}{4}$ inch thick.

Sprinkle with salt and pepper.

Pan-fry until light brown. Turn to insure

even cooking.

Note.—1. Lamb should be served very hot.

2. Serve with Brown Gravy (page 212).

BRAISED LAMB CHOPS

Portion: 2 (approx. 4-ounce) chops.

		100 H	D		
Ingredients	WEIGHTS		Amounts (approx.)	Portions	
Lamb, bone-in	Pounds 65	Ounces 			
Salt		8	1 cup		
Pepper		1	3½ tablespoons		

Cut lamb into 4-ounce chops ½ inch thick. Cook on heated griddle, or in pan on top of stove, or in hot oven (450° F.) 10 minutes or until chops are browned on both sides. Sprinkle with salt and pepper.

Stack on end in baking pans. Cover pans tightly. Cook in slow oven (300° F.) about 30 minutes.

NOTE.—For additional flavor, before cooking, let lamb chops stand about 2 hours in French Dressing (page 242) to which finely minced onions have been added.

Variations

Country Style Lamb Chops

Prepare braised chops and serve with Cream Gravy (page 212).

Lamb Chops with Barbecue Sauce or Tomato Sauce

Prepare braised chops and serve with Barbecue Sauce (page 207) or Tomato Sauce (page 218).

SAVORY LAMB

Portion: Approx. 6 ounces.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Lamb, bone-in	Pounds 45	Ounces 		
Lamb, boneless	31	••••		
Bacon, diced	10		11/4 gallons	
Flour	1	8	1½ quarts	
Salt	****	4	½ cup	
Pepper	••••	1/2	13/4, tablespoons	
Onions, sliced	5		1 gallon	
Lemons, juice, and peels cut into strips.			9	

Trim all excess fat from lamb. Cut meat into 1- to 2-inch cubes.

Fry bacon until light brown but not crisp.

Mix together flour, salt and pepper. Dredge lamb cubes in flour. Cook in pan with bacon and bacon fat until browned.

Add sliced onions, lemon juice and lemon rind.

Cook slowly in steam-jacketed kettle or in slow oven (325° F.) 1½ hours or until lamb is tender. Stir occasionally.

Portion: 8 ounces (approx. 1 cup).

			PORTIONS	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Lamb, bone-in	Pounds 40 28	Ounces 		
Salt	•	6	3/4 cup	
Pepper		1/2	13/4 tablespoons	
Onions, chopped	****	8	1½ cups	
Meat Stock (page 251) or water.			3 gallons	
Potatoes, cubed	12		1¾ gallons	
Onions, quartered	6		1½ gallons	
Carrots, 1 to 2-inch pieces	8		2 gallons	
Peas	5		2½ quarts	
Flour	2		½ gallon	
Water	-		1½ quarts	

Trim all excess fat from lamb. Cut meat into 1- to 2-inch cubes. Add salt, pepper, and onions.

Add stock or water. Cover tightly. Let simmer 2 to $2\frac{1}{2}$ hours or until meat is tender.

Add vegetables before meat is tender. Allow 45 to 60 minutes for potatoes and onions to cook. Allow 30 minutes for carrots. Prepare and cook peas separately.

Blend flour and water to a smooth paste.

Drain stock from stew and thicken with paste. Reheat.

Combine gravy with meat and vegetables.

Heat to boiling temperature. Garnish with cooked peas just before serving.

Note.—One of the following vegetables or combinations may be added, if desired: turnips and celery; celery, green peppers and summer squash; lima beans and turnips; onions, apples and celery; okra, tomatoes and celery; carrots, onions and green beans; kidney beans, celery and onions. (See Time-Table for cooking vegetables (page 282).)

Variation

Irish Beef or Veal Stew

Beef or veal may be used in place of lamb.

LAMB CURRY

Portion: 3/4 to 1 cup curry. Approx. 1 cup cooked rice.

		100 I	PORTIONS
Ingredients	WE	IGHTS	AMOUNTS (approx.)
Flour	Pounds 2	Ounces 	½ gallon
Bacon fat or other fat, melted	4		½ gallon
Milk, liquid	••••		1½ gallons
Meat Stock (page 251)		••••	2 gallons
Salt		6	3/4 cup
Pepper, cayenne	••••		½ teaspoon
Curry powder	=	6	1½ cups
Cinnamon			1 teaspoon
Cloves			1 teaspoon
Nutmeg		••••	1 teaspoon
Allspice		••••	1 teaspoon
Onions, minced	3	8	2½ quarts
Apples, sliced	6		1½ gallons
Lamb, cooked, cubed	23		41/4 gallons
Rice, cooked	27		4 gallons

Blend together flour and 2 pounds fat. Combine milk and stock. Heat to boiling temperature. Stir in flour mixture.

Heat to boiling temperature. Cook about 3 minutes.

Combine remaining fat, salt, pepper, curry powder, cinnamon, cloves, nutmeg, and allspice.

Add onions, apples and lamb. Cover tightly. Cook slowly 30 to 45 minutes. Stir in Cream Sauce.

Reheat lamb curry to boiling temperature. Serve on or around mound of hot rice.

Note.—Lamb curry may be made from fresh lamb by cooking it cubed as for stew. Use 31 pounds boneless lamb if meat is to be cooked.

Variation

Veal, Chicken or Turkey Curry

Use same weight of veal or 15 pounds cooked chicken or turkey, in place of lamb.

GRIDDLE-BROILED LAMB PATTIES

Portion: 2 (approx. 3½-ounce) patties.

Ivantavas		100 P		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Lamb, bone-in	Pounds 45	Ounces 		
Lamb, boneless	31			
Bread crumbs, soft	7	•	3½ gallons	
Onions, minced	5	****	3¾ quarts	
Salt	•	5	10 tablespoons	
Pepper		1/4.	3/4 tablespoon	
Meat Stock (page 251) or water.	•		3/4 gallon	•

Cut lamb into small cubes. Grind.

Mix together all ingredients lightly, but thoroughly. Shape into 3 to $3\frac{1}{2}$ -ounce patties 1 inch thick.

Broil on heated griddle about 12 minutes or to the desired degree of doneness. Turn to insure even cooking. Serve immediately.

Note.—1. Barbecue Sauce (page 207) or Tomato Sauce (page 218) may be used for part

or all of the water.

2. Serve lamb patties with or without gravy.

Variation

Baked Lamb Patties

Prepare lamb patties. Arrange in roasting pans. Bake, uncovered without turning, in slow oven (325° F.) about 45 minutes or to desired degree of doneness.

ROAST PORK

Portion: Approx. 5 ounces.

T		100 H	Donmara	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Pork cuts, bone-in OR Pork cuts, boneless	Pounds 55-60	Ounces 		
Salt	••••	8	1 cup	
Pepper		1	3½ tablespoons	

Cut pork into 6 to 8-pound pieces. Rub with salt and pepper.

Place in roasting pans with fat side up. Fill pans, without stacking or crowding.

Roast, uncovered without addition of water, in slow oven (325°F.) about 4½ to 5 hours or until well done. Allow 45 to 50 minutes per pound per roast. Reduce cooking time if smaller roasts are used.

Remove roasts about 1 hour before serving. Let stand about 30 minutes before carving. Carve roast, across grain, in thin slices. Keep hot.

NOTE. 1. Serve with Brown Gravy (page 212) and applesauce, stewed or baked apples, apple rings, cranberries, or tart jelly.

2. Roast pork may be served with Bread Dressing (page 199).

BRAISED PORK CHOPS OR STEAKS

Portion: 2 (approx. 4-ounce) steaks.

		100 P	Description	
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Pork chops or steaks OR Pork, boneless	Pounds 55-65 45	Ounces 	1 cup	
Pepper		1/4	3/4 tablespoon	

Cut meat into 4-ounce chops or steaks 3/4 inch thick. Sprinkle with salt and pepper.

Cook on heated griddle about 10 minutes or

until evenly browned on both sides.

Stack in roasting pans, bone side down on end. Cover with stock or water. Cover pan tightly.

Bake in slow oven (325° F.) 45 to 60 minutes or until tender.

Note.—1. Chops may be served with Brown Gravy (page 212).

2. Chops may be browned in oven instead of on griddle.

Variations

Country Style Pork Chaps or Steaks

Braised chops or steaks may be served with Cream Gravy (page 212).

Pork Chops or Steaks' with Barbecue or Creole Sauce

Barbecue Sauce (page 207) or Creole Sauce (page 213) may be used in place of water on browned meat for braising.

FRIED PORK CHOPS OR STEAKS

Portion: 2 (approx. 4-ounce) chops or steaks.

j		100 P	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Pork chops or steaks	Pounds 55-65	Ounces		
OR Pork, boneless	45			
Flour	2	••••	½ gallon	
Salt	****	6	3/4 cup	
Pepper		1/4	3/4 tablespoon	

Cut meat into chops or steaks ½ inch thick.

Mix together flour, salt and pepper. Dredge chops or steaks in flour.

Pan-fry in small amount of fat until well done

and evenly browned. Turn to insure even cooking.

Note.—Serve with Brown Gravy (page 212). Beef Stock (page 251), vegetable liquor, or water may be used in making gravy.

BREADED PORK CHOPS OR STEAKS

Portion: 2 (approx. 4-ounce) chops.

Ingredients		100 P		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Pork chops or steaks	Pounds 50-60	Ounces 		
Pork, boneless	42			
Salt	****	8	1 cup	
Pepper		1/2	13/4 tablespoons	
Flour	2	••••	½ gallon	
Milk, liquid	****	····	½ gallon	
Eggs, beaten	2		20 (1 quart)	
Bread crumbs	2		2½ quarts	

Cut meat into 4-ounce chops or steaks about 3/8 inch thick. Sprinkle with salt and pepper. Dredge with flour.

Combine milk and eggs. Mix well. Dip chops into egg mixture and then into bread crumbs.

Fry in hot deep fat at 350°F. about 7 to 10 minutes or until chops are browned. Place chops, on end, in baking pans and bake in slow oven (325°F.) for 30 to 40 minutes.

Note.—1. Breaded pork chops may be braised by cooking in small amount of fat until browned, then stacked on end, bone side down, in baking pans, covered tightly and baked in slow oven (325°F.) 45 minutes.

Breaded pork chops may be pan-fried. Turn to insure even cooking.

2. Serve with Tomato Sauce (page 218) or Brown Gravy (page 212).

BRAISED SPARERIBS

Portion: 8 to 10 ounces.

		100 P		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Spareribs	Pounds 65	Ounces 		
Salt	•	10	1½ cups	
Pepper		1/2	1 tablespoon	
Meat Stock (page 251) or water.		•••		

Cut spareribs into 4-rib pieces weighing about 8 to 10 ounces each.

Place in roasting pans. Stack as little as possible. Bake uncovered in hot oven (400°F.) until browned.

Sprinkle with salt and pepper. Add just enough stock or water to cover bottom of pan.

Cover and bake in slow oven (325° F.) 1½ to 2 hours or until ribs will slip from meat.

Variations

Braised Spareribs with Sauerkraut

Place sauerkraut in greased baking pans and cover with spareribs which have been cooked until browned.

Add small amount of stock or water. Bake in

slow oven (325° F.) $1\frac{1}{2}$ to 2 hours or until ribs are done.

Braised Spareribs with Barbecue Sauce

Pour Barbecue Sauce (page 207) over the ribs after they have been browned. Bake. Baste several times with the sauce.

PORK CHOP SUEY

Portion: Approx. 8 ounces chop suey. Approx. 6 ounces rice.

		100 P	ORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Pork cuts, bone-inOR		Ounces 		
Pork, boneless	25			
Meat Stock (page 251) or water.			1 gallon	
Salt		6	3/4 cup	
Pepper	••••	1/4	³ / ₄ tablespoon	
Onions, thinly sliced	4		1 gallon	
Celery, cut in strips	. 8		2 gallons	
Cornstarch		11	1 pint	
Bean sprouts	13	4	2 No. 10 cans (1½)	
Soy sauce			gallons). 1 pint	
Rice, cooked	27		4 gallons	

Cut meat into cubes or strips $1 \times \frac{1}{2} \times \frac{1}{4}$ inch. Cook until browned. Cover with stock or water. Add salt and pepper. Let simmer 1 hour.

Add onions and celery to meat. Continue cooking 30 minutes.

Make a smooth paste of cornstarch and part of water from sprouts.

Drain liquid from meat and vegetables. Stir cornstarch into hot liquid.

Add cooked meat, bean sprouts and soy sauce. Cook until thickened.

Serve chop suey on cooked rice.

Variation

Beef or Veal Chop Suey

Beef or veal may be used in place of pork. Cook meat in 1 pound (1 pint) fat until browned.

PORK LOAF

(Using pork sausage meat, canned)

Portion: Approx. 4 ounces.

Ingredients		100 P	PORTIONS	
	WEIGHTS		AMOUNTS (approx.)	
Onions, dehydrated	Pounds 1	Ounces 12	1¾ quarts	
Water, for onions			1½ gallons	
Eggs, powdered, whole		6	1½ cups	
Onion juice or water			2¼ cups	
Milk, powdered, whole	[3	3/4 cup	
Onion juice or water			1½ pints	
Sausage meat, pork, canned	17		8 34-ounce cans	
Salt		1	2 tablespoons	
Cracker crumbs	5		$2\frac{1}{2}$ gallons	

Soak onions in 1½ gallons water 20 minutes. Drain. Reserve liquid.

Stir powdered eggs into 2½ cups liquid drained from onions, stirring constantly to avoid lumping. Mix until smooth.

Stir powdered milk into $1\frac{1}{2}$ pints liquid drained from onions or water until dissolved, stirring to prevent lumping.

Mix together sausage meat, salt, and cracker crumbs. Add onions, eggs, and milk. Mix until well blended.

Shape into loaves. Pack in greased loaf pans. Bake, uncovered, in moderate oven (350° F.) 45 minutes.

Note.—Bulk sausage meat or ground sausage links may be used.

KINDS OF SMOKED HAM

Commercial Ham

The commercial, domestic, or regular-cure smoked ham has a low salt content and is suitable for baking (reasting) without parboiling or soaking beforehand.

Cutting Smoked Commercial Hams Before Cooking: The following method of preparing commercial hams in the butcher shop, before they are turned over to the cooks, is recommended for several reasons:

The hams will require less space in the oven. They will be easier to carve.

The shanks can be held back for seasoning purposes.

The surplus fat can be rendered and used for frying and baking.

It eliminates the possibility of cooking sour hams, because it provides a definite check on the interior of the ham around the leg bone.

Directions for Cutting: Defrost ham completely before preparation for cooking, if ham is frozen.

Remove hock at stifle joint, leaving as much meat as possible on the cushion section. (Store hock in refrigerator until needed.)

Trim off outside skin and remove surplus fat, exceeding one-half inch, covering outside of ham.

Take out aitch bone.

Loosen meat around knuckle ends of leg (round) bone.

Note.—An alternate method is to remove the aitch bone after cooking, since it can be taken out easier then. This prevents checking the ham for sourness unless a ham trier is used.

Carving Cooked Smoked Ham: It is assumed that the smoked ham was prepared before cooking as indicated in the paragraph "Cutting Smoked Commercial Hams Before Cooking." As a result the shank, aitch bone, skin and surplus fat from the outside of the ham have already been removed. The ham contains only the leg bone. Allow ham to "set" for 30 minutes, then proceed as follows:

Remove knuckle section by cutting through meat to leg bone on each side of ham. Remove knee cap from this section. Lift out leg bone. Split cushion of ham into inside and outside sections.

The preceding method of splitting the cooked ham provides 3 boneless pieces of uniform size. These may be carved across the grain either by hand or on the electric slicing machine.

Overseas Ham

The overseas ham has a high salt content. It is usually shankless and, when it is to be used within a few weeks after leaving the packer, it may be wrapped in paper like the commercial ham. When it is to be shipped overseas, or is to be held for a long period of time without refrigeration, it is put in a cloth bag and packed for export.

When the overseas ham has been out of cure for only a short time, it may be cooked whole, if it is first parboiled for about 1 hour, or soaked overnight in cold water.

When these have been out of cure for a month or longer, at temperatures which may exceed 100° F., it is almost impossible to cook the ham whole and have a palatable product, even after soaking or parboiling before cooking.

Since it is difficult to tell how long the ham has been out of cure, or at what temperatures it was stored, it is recommended that the overseas ham be cut into slices not over 1 inch (preferably ½ inch) in thickness before cooking. The slices can be parboiled twice and then cooked in numerous ways. See recipes on pages 171 and 173.

Ham, Canned, Whole

Canned whole hams are prepared from cured, smoked hams which have been completely skinned, boned, and closely trimmed. They are packed and cooked in hermetically sealed cans. These hams, including natural juices, weigh from 8 to 14 pounds.

Canned hams are perishable. 'Each can is marked "Perishable—Keep Under Refrigeration" and must be held under refrigeration of 50° F. or lower.

Canned ham is cooked ready to eat as it is packed. It may be sliced for sandwiches, or, reheated, used as the meat item for a meal. Reheating enhances the flavor of the ham. The natural juices in the can should be used as a base for soups, gravies, and for flavoring vegetables.

BAKED HAM

(Commercial)

Portion: 4 to 5 ounces.

Tyangayaya		100 F	Danasa	
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Hams, commercial	Pounds 60	Ounces		

Prepare commercial hams for cooking (page 167).

Place hams, fat side up, in roasting pans. Fill pans but do not stack or crowd hams.

Roast, uncovered and without water, at constant temperature in slow oven (325° F.) according to the cooking schedule.

NOTE.—If ham is to be served cold, let stand until cool enough to handle. Place in refrigerator until ready to be served.

Cooking Schedule

WEIGHT OF HAM	COOKING TIME
Pounds	Hours
16 to 18	4½ to 5
12 to 15	3½ to 4½
10 to 12	3 to 3½
8 to 10	3

BAKED HAM

(Using whole ham, canned)

Portion: 4 to 5 ounces.

Ingredients		100 P	Portions	
	WEIG	GHTS	AMOUNTS (approx.)	
Ham, canned, whole	Pounds 25-31	Ounces		

Place hams, fat side up, in roasting pans. Add all natural juice from the cans.

Add water to cover bottom of pans.

Roast, uncovered, in slow oven (325° F.) allowing 12 to 15 minutes per pound.

Variation

Glazed Baked Ham

Pack brown sugar on fat surface of ham before baking. Use 1 pound, 6 ounces (1 quart) brown sugar for 25 pounds ham.

If desired, cloves may be inserted in fat surface before sugar is packed on. Remove cloves before carving.

BAKED HAM

(Commercial simmered and baked)

Portion: 4 to 5 ounces.

		100 P		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	PORTIONS
Hams, commercial	Pounds 60	Ounces 		
Water			To cover	

Prepare commercial hams for cooking (page 167).

Place in steam-jacketed kettle or cooking vessel.

Cover with water. Cover kettle. Let simmer approximately ½ the total cooking time.

Remove hams from water. Place, fat side up, in roasting pans. Fill pans but do not stack or crowd hams.

Roast, uncovered and without water, at constant temperature, in moderate oven (325° F.) for the remaining half of the total cooking time.

NOTE.—If ham is to be served cold, let stand until cool enough to handle. Place in refrigerator until ready to be served.

Cooking Schedule

WEIGHT OF HAM	TOTAL COOKING TIME	
Pounds	Hours	
16 to 18	4	
12 to 15	31/2	
10 to 12	3	
8 to 10	$21/_{2}$	

SIMMERED (BOILED) HAM

(Commercial)

Portion: 4 to 5 ounces.

Induplying		100 I		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Hams, commercial	Pounds 60	Ounces		
Water			To cover	

Prepare commercial hams for cooking (page 167).

Place in steam-jacketed kettle or cooking vessel.

Cover with water. Cover kettle. Let simmer until tender according to the cooking schedule.

NOTE.—1. If ham is to be served cold, let stand in cooking water until ham is cool enough to handle. Remove from water. Place in refrigerator until ready to be served.

2. Hams should be cooked at a simmering temperature and not at a boiling temperature

to prevent hams from breaking or tearing apart.

Cooking Schedule

WEIGHT OF HAM	COOKING TIME
Pounds 16 to 18	Hours 4
12 to 15	$3\frac{1}{2}$
10 to 12	3
8 to 10	$2\frac{1}{2}$

HAM SLICES COOKED IN MILK

(Commercial)

Portion: Approx. 6 ounces.

Ingredients		100 F	Portions	
	WEIGHTS			AMOUNTS (approx.)
Ham, bone-in OR Ham, boneless	Pounds 60 42	Ounces 		
Sugar, brown	3		2½ quarts	
Mustard, dry	••••	1	4½ tablespoons	
Milk, liquid			3½ quarts	

Split ham into cushion and knuckle sections. Cut into 6-ounce slices $\frac{1}{2}$ to $\frac{3}{4}$ inch thick.

Mix brown sugar and mustard. Rub on surface of both sides of ham slices.

Place slices in baking pans. Pour milk over ham.

Cook uncovered in slow oven (325° F.) about 2 hours or until tender.

Serve with the milk sauce over the ham slices.

HAM SLICES COOKED IN MILK

(Overseas)

Portion: 4 to 5 ounces.

Ingredients		100 F		
	WEI	GHTS	AMOUNTS (approx.)	Portions
Ham, overseas	Pounds 60	Ounces		
Water				
Sugar, brown	3		21/4 quarts	
Mustard, dry		1	4½ tablespoons	
Milk, liquid			To cover	

Prepare overseas hams for cooking (page 167).

Place ½-inch thick slices in roasting pans. Cover with cold water. Heat to boiling temperature. Drain.

Cover again with cold water. Heat to boiling temperature. Drain.

Mix together sugar and mustard. Rub on both sides of ham slices.

Place in roasting pans. Cover with milk. Cook, uncovered, in moderate oven (300° F.) about 2 hours or until tender.

NOTE.—Water may be used in place of milk.

Variation

Escalloped Ham and Potatoes

Parboil ham slices twice. Drain off water.

Prepare Escalloped Potatoes (page 314). Arrange layer of uncooked potatoes in roasting pans. Place ham slices over potatoes. Cover with layer of potatoes.

Bake in slow oven (325° F.) for $1\frac{1}{2}$ to 2 hours or until potatoes are tender.

FRIED HAM

Portion: 3 to 6 ounces.

Types		100 P		
Ingredients	WE	GHTS	AMOUNTS (approx.)	Portions
Ham, bone-in	Pounds 30-60	Ounces 		
Ham, boneless	21-42	••••		

Split hams into cushion and knuckle sections. Cut pieces into \%-inch slices.

Cut into 3 to 6-ounce portions, each according to what is to be served with the ham.

Cut fat edge, in several places, on each portion of ham to prevent curling.

Pan-fry ham, slowly, on top of stove, at

moderate heat, allowing the fat to collect in pan.

Cook about 10 minutes, turning slices to insure even browning.

NOTE.—If fat from ham smokes, the frying temperature is too high.

GRIDDLE-BROILED HAM

Portion: 3 to 6 ounces.

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Ham, bone-in	Pounds 30–60	Ounces 		
Ham, boneless	21–42			

Split hams into cushion and knuckle sections. Cut pieces into \(^3\){s-inch slices.}

Cut into portions 3 to 6 ounces each, according to what is to be served with the ham. Cut fat edge in several places to prevent curling.

Broil on heated griddle. Turn to insure even cooking.

Cook about 10 minutes, 5 minutes on each

side. Serve immediately.

NOTE.—1. Scrape fat from ham as it accumulates. Keep griddle temperature moderate.

- 2. Serve with Cream Gravy (page 212), if desired.
- 3. Serve with eggs or omelet, pancakes, or potatoes. Especially good with escalloped potatoes.

HAM SLICES, SMOTHERED

(Commercial)

Portion: Approx. 6 ounces.

		100 P	ORTIONS
Ingredients	WEI	GHTS	AMOUNTS (approx.)
Ham, bone-in	Pounds 60	Ounces 	
Ham, boneless	42	•	
Water, boiling			
Cloves, whole	••••	1/4	1½ tablespoons
Sugar, brown	1		1½ pints
Onions, chopped	2		1½ quarts
Bread crumbs, dry, fine	5		5½ quarts
Milk, liquid			3½ quarts

Split ham into cushion and knuckle sections. Cut pieces into 6 to 7-ounce slices, ½ to ½ inch thick.

Place in roasting pans. Cover with boiling water. Let simmer 35 to 40 minutes.

Drain water from meat. Reserve for cooking vegetables.

Sprinkle cloves, sugar, onions and bread crumbs over ham slices. Pour milk over ham.

Bake in slow oven (325°F.) about 45 minutes or until top is browned and crisp.

HAM SLICES, SMOTHERED

(Overseas)

Portion: 4 to 5 ounces.

		100 PC	ORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Ham, overseas	Pounds 60	Ounces 		
Water				
Cloves, whole		1/4	1½ tablespoons	
Sugar, brown	1	••••	1½ pints	
Bread crumbs, dry	5		61/4 quarts	
Onion, chopped fine	2		1½ quarts	
Milk, liquid	****		1 gallon	

Prepare overseas hams for cooking (page 167).

Place slices in roasting pans. Cover with water. Heat to boiling temperature. Drain.

Cover again with cold water. Heat to boiling temperature. Drain.

Cover with hot water. Let simmer 35 to 45 minutes. Drain.

Place cloves, sugar, onions and bread crumbs over ham slices. Add milk.

Bake in moderate oven (300° F. to 350° F.) about 45 minutes or until top is browned and crisp.

GRIDDLE-BROILED HAM AND MEAT PATTIES

Portion: 4 to 5 ounces.

		100 F			
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions	
Ham, ground	Pounds 10	Ounces 			
Meat (beef, lamb, pork or veal), ground.	20				

Mix together ham and other meat. Shape into 3 to $3\frac{1}{2}$ -ounce patties.

Broil on heated griddle slowly, 12 to 15 minutes or until well done and browned on outside. Keep temperature below smoking point of fat. Turn meat to insure even cooking. Serve immediately.

Note.—Serve ham and meat patties with Brown Gravy (page 212).

Variation

Baked Ham and Meat Patties

Mix meat and shape into patties about 5 to 1 pound. Arrange in baking pans.

Cook at constant temperature in slow oven (325° F. to 350° F.) 25 to 30 minutes or until well done.

Serve with Cream Gravy (page 212).

HAM AND PORK LOAF

Portion: Approx. 5 ounces.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Pork, lean, ground	Pounds 18	Ounces		
Ham, smoked, ground	12			
Onions, minced	3		1½ quarts	
Bread crumbs	4		11/4. gallons	
Salt		4	½ cup	
Pepper	****	1/4.	3/4. tablespoon	
Eggs, slightly beaten	3		30 (1½ quarts)	
Milk, liquid	•		½ gallon	

Combine pork, ham and onions.

Add crumbs, salt, pepper, eggs and milk. Mix well.

Shape into loaves about 12 x 4 x 3 inches. Place in greased roasting pans.

Roast, uncovered, without adding water, in

slow oven (325° F.) 2 to $2\frac{1}{2}$ hours or until well done.

NOTE.—1. Serve with Cream Gravy (page 212) if desired.

2. Pork, ham and onions may be ground together or separately.

HAM SCALLOPED WITH APPLES

Portion: Approx. 6 ounces.

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Ham, cooked, chopped	Pounds 20	Ounces 	$2\frac{1}{2}$ gallons	
Apples, sliced	20	••••	3½ gallons	
Sugar, brown	4		3/4 gallon	
Cloves, whole	••••	3/4.	4½ tablespoons	
Fruit juice or water			1½ quarts	

Arrange alternate layers of ham, apples, sugar and cloves in baking pans. Cover with

fruit juice or water.

Bake in slow oven (300°F.) $1\frac{1}{2}$ hours.

HAM AND LIMA BEAN SCALLOP

Portion: Approx. 8 ounces.

		100 P	Portions	
INGREDIENTS	WEIGHTS			AMOUNTS (approx.)
Beans, lima, dried	Pounds 12	Ounces	13/4 gallons	
Water	****		To cover	
Ham, cooked, cubed	20			
Salt	****	2	½ cup	
Pepper			2 teaspoons	

Pick over and wash beans. Cover with water. Soak 4 hours.

Heat to boiling temperature. Let simmer 1 hour or until almost tender, being careful not to break skins.

Add ham, salt and pepper.

Place mixture in greased baking pans. Bake in slow oven (325° F.) 1 to 1½ hours.

Note.—1 quart molasses or brown sugar and $\frac{3}{4}$ pound minced onions may be added for flavor.

JAMBALAYA

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

Ingredients		100 F	PORTIONS	
	WEI	GHTS	AMOUNTS (approx.)	Portions
Ham ends and trimmings, cooked. Celery, diced	Pounds 10	Ounces 	½ gallon	
Onions, chopped	. 1	8	4½ cups	
Ham or bacon fat	. 1		1 pint	
Rice, uncooked, washed	3		1½ quarts	
Tomatoes	. 12	12	2 No. 10 cans (6½	
Ham Stock (page 254)			quarts). 2 gallons	
Catsup			1 pint	
Salt		3	6 tablespoons	
Worcestershire sauce			1 cup	

Cut meat into ½ to ¾-inch cubes.

Fry celery and onions in fat until lightly browned.

Add ham, rice, tomatoes, stock, catsup, salt

and Worcestershire sauce.

Heat to boiling temperature. Let simmer, stirring frequently until rice is tender and mixture is thick.

Portion: 4 to 5 ounces.

		100 P		
Ingredients	WEIGHTS,		AMOUNTS (approx.)	Portions
Water	Pounds	Ounces 	5 gallons	
Noodles	5		23/4 gallons	
White Sauce, medium (p. 208)			4 gallons	
Onions, minced		8	1½ cups	
Ham, cooked, ground	14			
Butter or other fat		4	1/2 cup	
Bread crumbs, dry, fine	2		2½ quarts	

Heat water to boiling temperature. Stir in noodles. Cook 20 minutes or until tender. Do not overcook. Drain.

Combine white sauce and onions.

Arrange alternate layers of noodles, white sauce and ham, in greased baking pans.

Mix together butter and crumbs. Sprinkle over ham mixture.

Bake in moderate oven (350° F.) about 60 minutes.

Note.—Macaroni may be used in place of noodles.

HAM BANANA ROLLS WITH CHEESE SAUCE

Portion: 2 rolls.

	***************************************	100 P	Portions	
INGREDIENTS	WEIGHTS			AMOUNTS (approx.)
Ham, cooked, sliced thin	Pounds 12	Ounces 8	200 (1-ounce) slices	
Mustard, prepared		•	½ pint	
Bananas, medium		P	200	
Cheese Sauce (page 210)			2½ gallons	

Spread each slice of ham lightly with mustard. Peel bananas and wrap slice of ham around each.

Place in baking pans. Pour Cheese Sauce over bananas and ham.

Bake in slow oven (325° F.) about 30 minutes, or until bananas are tender when pierced with a fork. Serve immediately with any cheese sauce remaining in pan.

Variation

Banana Rolls with Chopped Ham

Peel bananas. Place in greased baking pans. Brush with melted butter. Spread lightly with prepared mustard.

Cover bananas with chopped left-over ham, allowing $\frac{3}{4}$ to 1 ounce for each portion. Pour Cheese Sauce over bananas. Bake in moderate oven (350° F.) 20 minutes.

Sprinkle with buttered crumbs or paprika.

Portion: 2 croquettes.

		100 P	Portions	
Ingredients	WEI	GHTS	Amounts (approx.)	TORTIONS
Ham, cooked, finely chopped	Pounds 25	Ounces 		
Salt		2	½ cup	
Pepper	••••	1/2	13/4 tablespoons	
Onions, finely chopped	5		33/4 quarts	
Fat	2		1 quart	
Flour	2		½ gallon	
Ham Stock (page 254) hot			11/4 gallons	
Eggs, whole	3		30 (1½ quarts)	
Bread crumbs, dry	5		61/4 quarts	
Flour, for dredging				
Eggs, slightly beaten	1		10 (1 pint)	
Milk, liquid	•		3½ cups	
Bread crumbs, dry				

Mix together ham, salt and pepper.

Fry onions in fat until clear. Stir in flour. Mix well.

Add ham stock. Heat to boiling temperature, stirring constantly. Remove from heat.

Stir in 5 pounds bread crumbs, ham and $1\frac{1}{2}$ quarts eggs. Mix well.

Chill in refrigerator.

Shape into 3 to $3\frac{1}{2}$ -ounce croquettes. Roll in flour.

Mix together eggs and milk. Dip croquettes into mixture. Roll in crumbs.

Fry in hot deep fat at 375°F. 3 to 4 minutes, or until evenly browned.

BAKED CANADIAN BACON

Portion: 4 to 5 ounces.

Ingredients		100 P		
	WEI	GHTS	AMOUNTS (approx.)	Portions
Canadian bacon	Pounds 30	Ounces 	4 to 5 pieces	
Water			3/4 gallon	

Score surface of bacon with knife. Place in roasting pans. Add water.

Bake in moderate oven (350° F.) until tender, allowing 15 to 20 minutes per pound.

Note.—Canadian bacon may be covered with a mixture of 1½ pounds (3¾ cups) brown sugar and 1 quart orange or pineapple juice before baking.

GRIDDLE-BROILED BACON

Portion: Approx. 2 ounces.

Lyangura		100 P	Dangrang			
Ingredients .		WEIGHTS		AMOUNTS (approx.)	PORTIONS	
Bacon		Pounds 25	Ounces 			

Remove rind from slabs of bacon, cutting away as little fat as possible. Slice bacon about 8 slices to 1 inch.

Broil slowly on heated griddle. Turn until crisp, but not brittle. Keep temperature below the smoking point of fat.

Variation

Oven-Broiled Bacon

Place slices, slightly overlapping, in shallow baking pans. Place only enough slices to fill length of pan. Cook in moderate oven (350° F.) without turning until bacon is desired degree of doneness.

Lift bacon from fat and drain on absorbent paper. Serve immediately.

NOTE.—1. Avoid overcooking bacon as the crisper the bacon is cooked, the saltier it tastes and the more readily it breaks.

2. Serve with eggs, omelet, pancakes, or potatoes.

GRIDDLE-BROILED PORK SAUSAGE LINKS

Portion: 2 to 3 ounces.

Ingredients	ø	100 P	Португала	
	WEI	GHTS	AMOUNTS (approx.)	Portions
Pork sausage links	Pounds 35	Ounces 		

Broil sausage slowly on heated griddle about 10 to 12 minutes or until browned and well done. Turn sausages to insure even cooking.

Note.—1. Keep temperature below smoking point of fat.

2. Serve sausage links with gravy, Barbecue Sauce (page 207), or Tomato Sauce (page 218), if desired.

Variation

Baked Pork Sausage Links

Place sausage links in baking pans and pour in just enough water to cover bottom of pan.

Cover pan tightly and bake in slow oven (325° F.) 15 to 20 minutes.

Remove cover and bake until brown. Turn sausages to insure even browning.

PORK SAUSAGE LINKS (PIGS) IN BLANKETS

Portion: 2 rolls.

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Biscuit Dough (page 361)	Pounds 8	Ounces 		
Pork sausage links	35			
Eggs, beaten		8	5 (1 cup)	
Milk, liquid			12/3 cups	

Prepare Biscuit Dough using ½ as much fat as usual. Roll dough on floured surface to ¼ inch thickness. Cut into pieces, each to cover 2 sausage links.

Broil sausage on heated griddle 4 to 5 minutes or until slightly browned.

Roll 2 sausages in pieces of dough (blanket).

Moisten edges and seal.

Mix together eggs and milk. Brush each roll with milk mixture.

Bake in hot oven (400°F.) about 20 minutes or until golden brown.

NOTE.—Serve with Brown Gravy (page 212) or Tomato Sauce (page 218).

PORK SAUSAGE LINKS AND SAUERKRAUT PIE

Portion: Approx. 6 ounces.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Pork sausage links	Pounds 25	Ounces 		
Sauerkraut	50			
Flour		****	gallons).	
Water, hot	••••		½ gallon	
Biscuit Dough (page 361)		***		

Broil sausage on heated griddle 10 to 12 minutes or until browned, turning to insure even browning.

Heat sauerkraut to boiling temperature.

Spread half of sauerkraut in bottom of baking pans. Sprinkle lightly with flour. Add another layer of sauerkraut and sprinkle with flour.

Place hot sausage links on top of sauerkraut. Add hot water.

Cover pans with biscuit dough rolled 1/4 inch thick.

Bake in hot oven (400° F.) 30 minutes or until browned.

Note.—Serve with sweet potatoes or noodles.

GRIDDLE-BROILED PORK SAUSAGE PATTIES

Portion: 2 patties.

		100 P	Danmana	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Pork sausage, fresh	Pounds 35	Ounces 		

Shape sausage meat into 3 to $3\frac{1}{2}$ -ounce patties.

Broil slowly on heated griddle about 15 minutes or until patties are browned and cooked well done in the center.

Turn to insure even cooking. Serve immediately.

NOTE.—1. Keep temperature below smoking point of fat.

2. Serve sausage patties with or without gravy.

3. 38 pounds (18 34-ounce cans) pork sausage meat, canned, may be used in place of 35 pounds fresh sausage meat. Cut meat in half lengthwise, then slice.

Variation

Baked Pork Sausage Patties

Shape sausage meat into patties, making about 5 to 1 pound. Arrange in baking pans.

Bake at constant temperature in slow oven (325° F. to 350° F.) 25 to 30 minutes or until well done.

Serve with Cream Gravy (page 212) if desired.

ROAST VEAL

Portion: Approx. 5 ounces.

Ingredients		100 H		
	WEI	GHTS	AMOUNTS (approx.)	Portions
Veal, bone-inOR	Pounds 60	Ounces 		
Veal, boneless	42			
Salt	••••	8	1 cup	
Pepper		1	3½ tablespoons	

Cut veal into 6-pound pieces.

Rub with salt and pepper.

Place fat side up in roasting pans. Fill pans without stacking or crowding.

Roast uncovered, without adding water, at constant temperature in slow oven (325° F.) approximately 4 hours (about 40 to 45 minutes per pound).

Remove roasts from pans just before serving. Carve across the grain in thin slices.

NOTE.—1. Chopped onions and bay leaves may be added before roasting the meat. These should be strained out before making Brown Gravy (page 212).

2. Roast veal may be served with Bread Dressing (page 199).

POT ROAST OF VEAL (BRAISED VEAL)

Portion: Approx. 5 ounces.

		100 P		
Ingredients	WE	GHTS	AMOUNTS (approx.)	Portions
Veal, bone-in	Pounds 60 42	Ounces 		
Fat	1	••••	1 pint	
Salt		6	3/4 cup	
Pepper	****	1/2	13/4 tablespoons	
Meat Stock (page 251) or water, hot.			1 quart	
Onions, chopped (optional)	5		3¾ quarts	

Cut veal into 6-pound pieces.

Cook in fat until browned on all sides.

Add salt, pepper, small amount of stock or water and onions.

Let simmer in closely covered steam-jacketed kettle or cook in slow oven (300° F.) 3 hours or until tender, depending on size of pieces. Turn several times during cooking. Add small amounts of liquid as needed.

Remove meat from pans and carve across the grain in thin slices.

Note.—1. Serve with Brown Gravy (page 212).

2. Onions may be cooked in fat with meat until browned, if desired.

Variations

Veal A La Mode

Add 3 pounds ($\frac{3}{4}$ gallon) diced carrots, 2 pounds ($\frac{1}{2}$ quarts) sliced onions, and 1 No. 10 can ($\frac{3}{4}$ quarts) tomatoes to braised veal 30 to 45 minutes before meat has finished cooking.

Serve vegetables in the gravy as a sauce over the sliced meat.

Braised Veal with Vegetables

Use 45 pounds bone-in or 31 pounds boneless veal. Add 8 pounds each of sliced carrots, onions, celery and turnips to the braised veal, allowing sufficient time for each to cook, before the meat has finished cooking.

Portion: Approx. 8 ounces (1 cup).

		100 P	ORTIONS	
Ingredients	Weights		AMOUNTS (approx.)	Portions
Veal, bone-in	Pounds 40	Ounces		
Veal, boneless	28			
Flour	1	8	1½ quarts	
Salt		6	3/4 cup	
Pepper		1/2	1¾ tablespoons	
Fat	1	8	1½ pints	
Meat Stock (page 251) or water, hot.	<u></u>	••••		
Onions, white, quartered	10		$2\frac{1}{2}$ gallons	
Celery, large dice	10	••••	2½ gallons	
Tomatoes	12	12	2 No. 10 cans $(6\frac{1}{2})$	
Beans, green	18	15		
Flour	1			
Water		,	1½ pints	

Cut meat into 1 to 2-inch cubes.

Mix together $1\frac{1}{2}$ pounds flour, salt and pepper. Roll meat in mixture. Cook in fat until browned, stirring constantly.

Cover with stock or water. Cover kettle tightly. Let simmer about 2 hours or until tender.

Add onions and celery 1 hour before end of cooking period. Add tomatoes and green beans 15 minutes before end of cooking period.

Drain stock from meat and vegetables. Mix together flour and water. Stir into stock.

Heat to boiling temperature, stirring constantly.

Pour gravy back over meat and vegetables. Reheat.

Variations

Veal or Pork Pie with Mashed Potato Crust

Use pork in place of veal. Prepare as Veal Stew.

Place in baking pans. Cover with mashed potatoes. Bake in hot oven (425°F.) 15 to 20 minutes or until browned.

Veal or Pork Pie with Biscuit Crust

Use pork in place of veal. Prepare as for Veal Stew. Place in baking pans. Cover with Biscuits (page 361) or with biscuit crust. Bake in hot oven (425° F.) 15 to 20 minutes or until mixture bubbles or biscuits are brown.

Veal or Pork Pie with Pie Crust

Use pork in place of veal. Prepare as Veal Stew.

Place in baking pans. Cover with Pie Crust (page 399). Bake in hot oven (425° F.) 5 to 10 minutes or until browned.

Veal Stew with Rice

Prepare as Veal Stew. Serve with or on cooked rice.

Veal Stew with Dumplings or Noodles

Prepare as Veal Stew. Add Dumplings (page 370) or Noodles (page 45) to stew, allowing

sufficient time for them to cook before meat is done.

Spiced Veal Stew

Use 50 pounds bone-in or 35 pounds boneless veal. Omit all vegetables.

Cut meat into 1 to 2-inch cubes. Cook until browned.

Add $\frac{1}{2}$ gallon vinegar, 2 pounds ($1\frac{1}{2}$ quarts) brown sugar, 1 ounce ($4\frac{1}{2}$ tablespoons) cinnamon, 16 bay leaves, 1 pound (1 quart) sliced onions and liquid to cover meat.

Cover tightly and let simmer $2\frac{1}{2}$ to 3 hours or until meat is tender.

Drain liquid from meat. Serve as gravy, if desired.

VEAL FRICASSEE

Portion: Approx. 8 ounces.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Veal, bone-in OR Veal, boneless	Pounds 50 35	Ounces 		
Bacon fat or other fat	3		1½ quarts	······
Flour	2	8	2½ quarts	
Meat Stock (page 251)	•		3 gallons	
Salt		6	3/4 cup	
Pepper		1/2	13/4 tablespoons	

Cut meat into $1\frac{1}{2}$ to 2-inch pieces. Add $\frac{1}{2}$ the fat.

Cook in pan on top of stove, or in hot oven (400°F.) about 20 minutes, or until meat is well browned.

Blend together remaining fat and flour to a smooth paste.

Heat stock to boiling temperature.

Stir paste into stock. Cook until thickened, stirring constantly. Add salt and pepper.

Pour mixture over veal. Cover pan tightly.

Bake in slow oven (300°F.) 1½ to 2 hours or until tender.

NOTE.— Serve Veal Fricassee on or with cooked rice (page 44) or cooked noodles (page 45).

Variation

Pork Fricassee

Pork may be used in place of Veal for Fricassee.

Cook pork until browned in its own fat, and add just enough fat to combine with the flour.

Portion: 2 (4-ounce) cutlets.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Veal leg, boneless	Pounds 45	Ounces 		
Salt		2	1/4 cup	
Pepper		1/4	¾ tablespoon	
Milk, liquid		••••	1 quart	
Eggs, beaten	1		10 (1 pint)	
Flour	2		½ gallon	
Bread crumbs, dry, fine	1	8	½ gallon	

Cut meat into 4-ounce slices ½ inch thick. Sprinkle with salt and pepper.

Combine milk and eggs.

Dredge cutlets in flour. Dip in egg mixture. Cover with bread crumbs.

Fry in hot deep fat at 350° F. 5 to 8 minutes or until cutlets are evenly browned.

Place in baking pan. Cover. Bake in slow oven (325°F.) 1 hour or until well done.

Note.—1. For unbreaded cutlet omit eggwash and crumbing. Pan-fry cutlets until browned. Bake, covered, in a slow oven (325° F.) about 1 hour or until tender and well done.

2. Evaporated milk may be used for dipping instead of milk and egg mixture.

VEAL BIRDS

Portion: 2 Veal Birds.

		100 I	Doorses	
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Veal, bone-in	Pounds 50	Ounces		
OR Veal, boneless	35			
Salt	••••	6	3/4 cup	
Pepper		1/4	3/4 tablespoon	
Bread Dressing (page 199), moist.	20		5 gallons	
Flour	2		½ gallon	
Fat	4		½ gallon	
Brown Gravy (page 212)			$1\frac{1}{2}$ gallons	

Cut veal into 3-ounce rectangular pieces. Sprinkle with salt and pepper.

Spread stuffing on each piece. Roll and fasten with toothpicks. Dip in flour.

Fry in shallow hot fat until browned on all sides.

Place in roasting pans. Add brown gravy. Cover pans tightly. Bake in slow oven (300°

F.) 1 to $1\frac{1}{2}$ hours or until tender and well done.

Note.—1½ gallons Tomato Sauce (page 218) may be used in place of gravy.

Variation

Beef or Pork Birds

Beef or pork may be used in place of veal.

VEAL AND PORK LOAF

Portion: Approx. 5 ounces.

		100 P	ORTIONS	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Veal bone-in OR Veal, boneless	Pounds 35	Ounces 		
Pork cuts, bone-in OR Pork, boneless	9			
Bread crumbs, soft	4		2 gallons	
Onions, finely chopped	1		1½ pints	
Celery, finely chopped	1		1 quart	
Peppers, green, finely chopped	1	8	1½ quarts	
Milk, liquid			3½ quarts	
Salt		8	1 cup	
Pepper		1/2	1¾ tablespoons	
Fat, melted			,	

Cut veal and pork into small cubes. Grind.

Combine ground veal, pork, bread crumbs, onions, celery, green peppers, milk, salt and pepper. Mix thoroughly.

Shape into loaves about 12 x 4 x 3 inches. Place in greased roasting pans. Brush top of loaves with fat.

Roast, uncovered without adding water, at

constant temperature in slow oven (325°F.) 2 hours or until well done. Baste loaves at 20 minute intervals.

NOTE.—1. Well done veal or pork does not retain any pink color. Meat loaf is a roast. Serve hot or cold.

2. If served hot, serve with gravy or Tomato Sauce (page 218).

Portion: 2 patties.

		100 I		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Veal, bone-in	Pounds 45	Ounces 		
Veal, boneless	31 .			5
Bread crumbs, soft	7		$3\frac{1}{2}$ gallons	
Onions, minced	5		33/4 quarts	
Salt		5	10 tablespoons	
Pepper	••••	1/4	3/4 tablespoon	
Worcestershire sauce		4	½ cup	
Meat Stock (page 251) or water.			3/4 gallon	
Fat	2	J	1 quart	
Water				

Cut meat into 1 to 2-inch pieces. Grind.

Mix together veal, bread crumbs, onions, salt, pepper, Worcestershire sauce, and stock or water. Mix thoroughly.

Shape into 3 to $3\frac{1}{2}$ -ounce patties, 1 inch thick. Fry in hot fat until browned on both sides.

Place in roasting pans. Add small amount of water to cover bottom of pan. Cover pan tightly.

Bake in slow oven (325°F.) approximately 60 minutes or until tender.

Note.—1. Barbecue Sauce (page 207) may be used for part of or all of the liquid in Braised Veal Patties.

2. Serve with Barbecue Sauce (page 207) or Tomato Sauce (page 218).

Variation

Braised Pork Patties

Ground pork may be used in place of ½ the ground veal in Veal Patties. Bake until well done.

Portion: Approx. 5 ounces.

		100 F		
Ingredients	WEI	GHTS	Amounts (approx.)	Portions
Liver, beef, pork, lamb, or veal.	Pounds 35	Ounces 	½ cup	
Pepper		1/4	3/4 tablespoon	
Flour	3	••••	3/4 gallon	
Fat	4		½ gallon	
Meat Stock (page 251) or water, hot.				

Slice liver $\frac{3}{8}$ to $\frac{1}{2}$ inch thick. Cut into 5-ounce pieces. Sprinkle with salt and pepper. Dip in flour.

Cook in fat until brown. Reduce temperature.

Add enough stock or water to cover bottom of pans. Cover tightly.

Cook slowly about 20 minutes or until tender.

NOTE.—1. Serve with gravy made from drippings, if desired.

2. Liver may be stacked in roasting pans, with enough stock or water to cover bottom of pan. Bake in slow oven (300° F.) 15 to 20 minutes or until tender.

FRIED LIVER

Portion: Approx. 5 ounces.

T		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Liver, beef, pork, lamb or veal. Salt	Pounds 35	Ounces 5.	10 tablespoons	
Pepper		1/4.	3/4. tablespoon	
Flour Fat	2		½ gallon	

Slice liver $\frac{3}{8}$ to $\frac{1}{2}$ inch thick. Cut into 5-ounce pieces.

Sprinkle with salt and pepper. Roll in flour. Fry in fat to desired degree of doneness. Turn to insure even cooking.

Note.—1. Cook pork liver until well done,

but do not overcook. Too long cooking or cooking at too high temperature hardens liver and impairs the flavor.

2. Liver may be served with grilled bacon, also with fried or French Fried Onions (page 307).

Portion: Approx. 5 ounces.

Taxaayaya		100 H		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Liver, beef, pork, lamb or veal. Fat, melted	Pounds 35	Ounces 	1 pint	
Salt		5	10 tablespoons	
Pepper		1/4.	3/4 tablespoon	

Slice liver $\frac{3}{8}$ to $\frac{1}{2}$ inch thick. Cut into 5-ounce pieces. Dip in fat.

Broil on heated griddle at moderate temperature, 6 to 10 minutes, or until color has

changed. Turn to brown evenly on both sides.

Sprinkle with salt and pepper. Serve immediately.

LIVER AND PORK LOAF

Portion: Approx. 6 ounces.

		100 I		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Water	Pounds	Ounces	To cover	
Liver, pork	25			
Bread crumbs, dry	5	••••	61/4 quarts	······································
Pork, ground	5			
Salt	••••	6	3/4 cup	
Pepper	••••	1/4	3/4 tablespoon	
Catsup	••••		1 quart	
Eggs, slightly beaten	3		30 (1½ quarts)	
Lemon juice		••••	1 pint	
Onions, minced	2		1½ quarts	

Heat water to boiling temperature. Add liver and let simmer 10 minutes. Drain and grind. Combine all ingredients. Mix thoroughly. Pack lightly into greased loaf pans.

Bake in slow oven (325° F.) about 2 hours or until well done.

Remove from pans. Slice and serve hot.

NOTE.—1. Serve with gravy or Tomato Sauce (page 218), if desired.

2. Mixture may be shaped into 4-ounce patties. Wrap each in bacon slice and oven-broil or braise.

SIMMERED FRANKFURTERS

Portion: 2 to 3 frankfurters.

		100 F	Donmary	
Ingredients	WEI	GHTS	Amounts (approx.)	Portions
Frankfurters	Pounds 35	Ounces 	8 to 1 pound	
Water				

Cover frankfurters with water. Heat to boiling temperature.

Let simmer approximately 10 minutes.

Drain and serve hot.

Note.—1. Frankfurters may be pan-fried, in a small amount of fat, until browned.

2. Frankfurters may be broiled on heated griddle until evenly browned.

Variations

Frankfurters with Sauerkraut

Use 30 pounds sauerkraut. Heat together frankfurters and sauerkraut thoroughly.

Frankfurters with Baked Beans

Place 25 pounds frankfurters on top of Baked Beans (page 286) about 20 minutes before beans are done. Bake in slow oven (325° F.).

Note.—Sausage, Vienna style may be used in place of frankfurters.

FRANKFURTERS IN BLANKETS

Portion: 2 rolls.

Taranana		100 P	2	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Biscuit Dough (page 361)	Pounds 10	Ounces 		
Frankfurters	25		8 to 1 pound	
Eggs, slightly beaten		8	5 (1 cup)	
Milk, liquid	•		12/3 cups	

Prepare Biscuit Dough, using ½ as much fat as usual. Roll dough on floured surface to ¼ inch thickness. Cut into pieces, each to cover 1 frankfurter.

Broil frankfurters on heated griddle until slightly browned.

Roll 1 frankfurter in each piece of dough (blanket). Moisten edges of dough and seal together.

Combine eggs and milk. Brush each roll with egg mixture. Place in greased baking pans.

Bake in hot oven (400° F.) 20 minutes or

until golden brown.

NOTE.—Serve hot with Tomato Sauce (page 218), if desired.

Variation

Luncheon Meat, Canned Pork Sausage Links or Vienna Sausage in Blankets

Luncheon meat, canned pork sausage links or Vienna sausage may be used in place of frankfurters in blankets.

Cut luncheon meat in finger length pieces $\frac{3}{4} \times \frac{3}{4} \times \frac{31}{2}$ inches.

SPANISH FRANKFURTERS

Portion: 2 to 3 frankfurters with sauce.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Onions, chopped	Pounds 1	Ounces 6	1 quart	
Fat		8	1 cup	
Vinegar		****	1½ cups	
Sugar, brown		8	1½ cups	
Lemon juice	•		2½ cups (10 lemons)	
Catsup			2½ quarts	
Worcestershire sauce	•	••••	1 pint	
Mustard, prepared		3	3/4 cup	
Celery, chopped	1	4	11/4 quarts	
Water			2½ quarts	
Frankfurters	35		8 to 1 pound	

Cook onions in fat until clear. Add vinegar, sugar, lemon juice, catsup, Worcestershire sauce, mustard, celery and water.

Let simmer 30 minutes.

Add frankfurters to sauce. Cover pan tightly. Let simmer about 30 minutes.

BAKED LUNCHEON MEAT

Portion: 5 to 6 ounces.

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Pork luncheon meat	Pounds 35	Ounces 		
Sugar, brown	1	4	33/4 cups	
Orange juice			1 quart	
Water			3/4 gallon	***************************************

Score surface of luncheon meat with knife. Place meat in roasting pans.

Mix together sugar and orange juice. Cover loaves with mixture. Add water.

Bake in moderate oven (350° F.) 45 to 60 minutes.

Note.—Luncheon meat may be baked with Barbecue Sauce (page 207) or Tomato Sauce (page 218).

FRIED LUNCHEON MEAT

Portion: 5 to 6 ounces.

		100 PORTIONS	Danmacara
Ingredients	WEIGHTS	AMOUNTS (approx.)	Portions
Luncheon meat	35	nces	
Fat	2	1 quart	

Cut meat into ¼-inch thick slices. Pan-fry in fat until browned on both sides.

Variation

Mustard Grilled Luncheon Meat

Add 1 pound (1 quart) prepared mustard to

fat. Pan-fry meat slices in fat and mustard mixture until browned on both sides.

Note.—1. Any cold meat, sliced, may be used.

2. Use in sandwiches or as hot meat item in meal.

LUNCHEON MEAT WITH MUSTARD GLAZE

(Using luncheon meat, canned)

Portion: 5 to 6 ounces.

		100 F	PORTIONS
Ingredients	WEI	GHTS	Amounts (approx.)
Luncheon meat, canned	Pounds 36	Ounces	6 6-pound cans
Sugar		4	½ cup
Mustard, dry		1	4½ tablespoons
Cinnamon		1/4	1½ tablespoons
Corn sirup	1	n qr as	1½ cups
Vinegar			1 pint

Score surface of luncheon meat with knife. Place in roasting pans.

Mix together sugar, mustard, cinnamon, corn sirup, and vinegar. Pour mixture over meat.

Bake in moderate oven (350° F.) 1 hour. Baste meat with sirup during baking at least twice.

RICE LUNCHEON MEAT BALLS

(Using luncheon meat, canned)

Portion: 2 (2-ounce) meat balls.

Ingredients		100 P	ORTIONS
	WEIGHTS		Amounts (approx.)
Luncheon meat, canned	Pounds 24	Ounces 	4 6-pound cans
Rice, uncooked	5		2½ quarts
Eggs, powdered	1		1 quart
Pepper		1/4	1 tablespoon
Tomato juice	9		3 No. 10 cans (21/4 gallons).

Break up luncheon meat into small pieces. Add rice, eggs, and pepper. Blend together thoroughly.

Form into 2-ounce meat balls. Place as close together as possible in greased roasting pans.

Add tomato juice to half cover meat balls with juice.

Bake in moderate oven (350° F.) 1 hour.

Pour remaining tomato juice over meat balls. Continue baking 30 minutes.

ESCALLOPED LUNCHEON MEAT AND CORN

(Using luncheon meat, canned)

Portion: Approx. 4 ounces.

Ingredients		100 F	PORTIONS
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)
Corn, whole kernel Milk, liquid	Pounds 13	Ounces 4	2 No. 10 cans (6½ quarts). 2½ gallons
Butter or other fat, melted	2		1 quart
FlourLuncheon meat, canned	1	12	13/4 quarts
Salt		2	½ cup
Pepper		1/2	1 tablespoon
Bread crumbs, fine	1	8	½ gallon
Butter, melted	1	8	1½ pints

Drain corn. Reserve liquid. Heat milk to boiling temperature.

Blend fat and flour to a smooth paste. Stir into milk. Cook 10 minutes or until thickened.

Cut luncheon meat into ½- to ¾-inch cubes. Add meat and corn to sauce. Stir in salt and pepper. Mix thoroughly.

Place in well greased baking pans.

Mix together crumbs and butter. Sprinkle over surface of creamed mixture.

Bake in moderate oven (350° F.) 25 minutes or until crumbs are browned.

Note.—1. Use liquid from corn as part of milk to make $2\frac{1}{2}$ gallons.

- 2. 8 No. $2\frac{1}{2}$ cans $(6\frac{1}{2}$ quarts) cream style corn may be used in place of 2 No. 10 cans whole kernel corn.
- 3. 2 pounds 8 ounces (8¾ cups) milk, powdered, whole, reconstituted with $2\frac{1}{2}$ gallons water may be used in place of $2\frac{1}{2}$ gallons milk.

VIENNA SAUSAGE AND SWEETPOTATOES

(Using sausage, Vienna style, canned)

Portion: Approx. 5 ounces.

Ingredients		100 F	PORTIONS		
. INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	TORTIONS	
Potatoes, sweet, dehydrated	Pounds 5	Ounces 10	2 gallons		
Water, for potatoes			2½ gallons		
Sugar	3	12	1¾ quarts		
Sausage, Vienna style, canned	22	8	15 24-ounce cans		
Butter	1	1	1 pint		

Soak potatoes in water 45 minutes. Heat slowly, to boiling temperature. Let simmer 30 to 45 minutes until tender.

Drain potatoes, being careful to leave slices whole. Reserve liquid.

Dissolve sugar in liquid drained from potatoes.

Heat to boiling temperature. Let simmer 5 minutes.

Place sausage in baking pans. Cover with sweetpotatoes. Pour sirup over surface. Dot with butter.

Bake in moderate oven (350° F.) 20 minutes.

Poultry

Poultry is purchased either frozen or freshkilled and chilled, on the basis of dressed weight. It is considered dressed when it has been killed, bled and plucked.

Dressed poultry is not ready to cook until it has been drawn, meaning that the entrails, head and feet have been removed, and then properly prepared for cooking.

Frozen poultry should be stored at 0° F. to 15° F. and never thawed until ready to be used.

Fresh killed poultry should be stored at 31° F. to 33° F. until ready to use.

When purchasing fowl allow 12 ounces per portion dressed weight for turkey and 16 ounces for chicken and duck.

The weight of cooked edible meat of turkey approximates $\frac{1}{3}$ of the dressed weight or 5 to 6 ounces per pound. For chicken and duck, the cooked edible meat is equivalent to about $\frac{1}{4}$ of the dressed weight or 4 ounces per pound.

Preparation for Cooking

Singe and wash the bird thoroughly.

Chop off head.

Pull tendons if necessary and remove shanks at hock joints.

Cut neck skin down center back to the shoulder.

Free neck skin, gullet, windpipe and crop from neck. Pull gullet, windpipe and crop as far out as possible from the body. Be careful not to tear crop. Cut and remove.

Remove neck from body at the shoulder. Cut through the neck muscle, then twist to separate the vertebrae.

Drawing

Make an incision with a sharp pointed knife around the vent.

Cut abdomen through the internal body fat in a straight line from end of breast bone to incision made for vent. Avoid cutting intestinal tract.

Insert finger. Loosen intestines all around the body cavity. Lift lungs from ribs. Remove gizzard and all the entrails intact.

Cut out oil sac on back just above tail; run knife under the valve toward the tail.

Wash carcass, inside and out, quickly but thoroughly. Do not soak.

Separate giblets, gizzard, heart, and liver, from entrails. Carefully cut out bile sac from liver and discard it.

Remove sac attached to heart and cut away blood vessels. Wash heart thoroughly.

Cut into one side of gizzard just to inner sac. Pull walls away from inner sac. Discard sac. Wash gizzard.

NOTE.—1. Giblets should always be used because of their high nutritive value and good flavor. Cook them in a small amount of water until tender. Chop or grind them and add to gravy.

2. Use the bones from uncooked or cooked poultry and the feet, scalded and skinned, for making stock.

Trussing

Cut skin at abdomen above the tail, parallel to the cut made for drawing.

Put drumstick ends through the slits, underneath the strip of skin, to hold leg to body during cooking.

Draw neck skin over front opening onto back.

Fold wings into place.

Preparation of Broilers

Singe and wash thoroughly.

Lay bird on side. Cut off tail. Cut at an angle so that oil sac and vent are included with tail.

Cut from neck down on both sides of backbone.

Remove backbone: grasp head and rip out back, neck and backbone in one piece. Chop off head. Reserve neck and backbone for soup.

Open bird and remove entrails. Lift out lungs.

Flatten bird, breaking or chopping wishbone. Snap joints to keep bird flattened during cooking.

Separate giblets from entrails. Carefully cut out bile sac from the liver and discard it.

Wash bird quickly but thoroughly. Do not soak.

Disjointing Fryers and Fowls

Cut bird into 12 pieces as follows:

Remove wings at joint next to the body.

Disjoint legs at the back. Cut each leg into 2 portions at knee.

Make an incision through the thin muscle tissue at rear of breast or keel bone. Pass knife forward and upward to the juncture of the last rib and the back. Repeat on opposite side.

Bend back and break at that point.

Remove intestines, giblets and lungs.

Separate breast from ribs and cut into 3 pieces.

TIME-TABLE FOR COOKING POULTRY

			ROASTING	Braising
KIND	KIND POUNDS PER BIRD (approx.)		MINUTES PER POUND (approx.)	Minutes Per Pound (approx.)
Chicken	3½ to 4	350° F	35 to 45	40
	4 to 4½	350° F	35 to 45	40
	4½ to 5	350° F	35 to 45	
	5 and over	325° F	30 to 35	
Turkey	12 to 14	325° F	18 to 20	**********
	14 to 16	325° F	With longer time for	18
	16 to 18	325° F		15
	18 and over	325° F		
Duck	4½ to 5½	350° F	40 to 45	

BRAISED POULTRY

Portion: Approx. 3/4 to 1 pound.

T		100 F	ORTIONS
Ingredients	Wei	GHTS	Amounts (approx.)
Chicken, frying, drawn	Pounds 100	Ounces	20
Flour	4	••••	1 gallon
Salt		6	3/4 cup
Pepper	****	1	3½ tablespoons
Chicken fat or other fat	2		1 quart
Chicken Stock (page 252)		••••	1 gallon

Prepare chicken for cooking. Disjoint.

Combine flour, salt and pepper. Dredge chicken in flour.

Cook in fat until well browned. Place in roasting pans. Add enough stock to cover bottom of pan. Cover.

Braise in moderate oven $(350^{\circ}F.)$ $2\frac{1}{2}$ to $3\frac{1}{2}$ hours or until tender.

Turn and baste several times during braising period.

Note.—1. 1 gallon water may be used in place of 1 gallon stock.

- 2. Roasting chickens may be used in place of frying chickens.
- 3. Serve with gravy made from liquid drained from braised poultry.
- 4. Turkey, disjointed and cut into convenient pieces for serving, may be braised in place of chicken.
- 5. Braising time will vary with type of poultry and size of pieces used.
- 6. Chicken may be braised in steam-jacketed kettle.

Portion: Approx. 1 pound.

		100 1	PORTIONS
INGREDIENTS	WEIGHTS		Amounts (approx.)
Chicken, frying, dressed	Pounds 125	Ounces	25
Chicken, frying, full drawn	100		25
Flour	4		1 gallon
Salt		5	10 tablespoons
Pepper			2 tablespoons
Fat, melted	5		2½ quarts
Chicken Stock (page 252)			To cover bottom of pan

Prepare chicken for frying. Cut in half through length of the body, or into quarters, depending upon size of chicken.

Mix together flour, salt and pepper.

Dredge or roll chickens in flour mixture. Cover completely. Shake off excess flour.

Cook chicken in fat until browned on all sides.

Place 1 layer deep in roasting pans. Add enough stock to cover bottom of pan to prevent sticking. Cover.

Bake in moderate oven (350°F.) $1\frac{1}{2}$ to $2\frac{1}{2}$ hours or until tender.

Note.—1. Chickens may be browned in hot deep fat at 360°F. 5 to 8 minutes then finished off in oven as above.

- 2. Roasting chickens may be used if cut into quarters instead of halves.
- 3. Bread crumbs, dried, sifted may be used in place of $\frac{1}{2}$ the flour for dredging.
- 4. Serve with or without Cream Gravy (page 212).

FRIED CHICKEN, MARYLAND STYLE

Portion: Approx. 1 pound.

		100 F		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Chicken, frying, dressedOR	Pounds 125	Ounces 	25	
Chicken, frying, full drawn	100		25	
Flour	4		1 gallon	
Salt		6	³ / ₄ cup	
Pepper		1	3½ tablespoons	
Eggs, beaten	1	13	18 (13/4 pints)	
Milk, liquid			1/2 gallon	
Bread crumbs, fine	. 4	****	1 gallon	
Chicken fat or other fat, melted.	1		1 pint	

Prepare chicken for cooking. Cut into halves or quarters.

Combine flour, salt and pepper. Mix together eggs and milk.

Dredge chicken in flour mixture. Dip in milk. Roll in crumbs and coat thoroughly.

Place into greased roasting pans. Add fat and remaining water.

Bake in moderate oven (350°F.) 1 to $1\frac{1}{2}$ hours or until tender.

Baste during cooking period.

ROAST CHICKEN OR TURKEY OR DUCK

Portion: Approx. 3/4 pound chicken or duck.

Approx. 4 to 5 ounces turkey.

		100 F		
INGREDIENTS	WEIGHTS		Amounts (approx.)	PORTIONS
Chicken, roasting, dressed	Pounds 125	Ounces 	20	
Chicken, roasting, full drawn.	100		20	
Salt		5	10 tablespoons	
Pepper			2 teaspoons	
Bread Dressing (page 199)	14	12	5 gallons	
Chicken fat or other fat, melted.	1	•	1 pint	

Prepare chicken for cooking. Rub cavity of chicken thoroughly with salt and pepper.

Stuff with dressing. Truss. Grease outside of bird with melted fat.

Place in roasting pan. Add enough water to cover bottom of pan.

Roast in slow oven $(325^{\circ}F.)$ $2\frac{1}{2}$ to 3 hours or until meat is tender. Turn occasionally to brown evenly.

Note.—1. To test doneness, grasp drumstick. If joint moves easily or breaks, the ligaments in joint are tender and meat is done.

- 2. Brush chicken with additional fat, if needed, during roasting to prevent skin from drying.
- 3. Chickens or turkeys may be stuffed or unstuffed for roasting. For large quantity preparation, roast unstuffed. Bake dressing in greased roasting pan in moderate oven (350° F.) 1 hour. Serve hot with fowl and Chicken Gravy (page 212).

Roast Turkey

Use 85 pounds of turkeys, full drawn.

Prepare for roasting in same manner as chicken. Allow 1 gallon dressing for 16-pound turkey. See Time-Table (page 195) for length of roasting period.

Roast Duck

Use 100 pounds of ducks, full drawn.

Prepare ducks for roasting.

Stuff cavity with 1 apple, quartered, 1 or 2 onions, quartered, and 1 or 2 stalks of celery, or with bread dressing as for chicken.

Prick skin in several places before placing in oven so that fat will run out during roasting. Roast the duck, uncovered, breast side up. Do not turn or baste. Pour off fat during roasting period, if an excess should collect. See Time-Table (page 195) for length of roasting period.

Yield: Approx. 25 pounds.

Portion: Approx. 4 ounces.

		100 P	Decrees	
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	Portions
Bread, day-old, cubed	Pounds 20	Ounces 	10 gallons	
Thyme		••••	1 tablespoon	
Sage	••••	1	½ cup	
Salt		2	1/4 cup	
Pepper		1/2	1¾ tablespoons	
Onions, chopped	1	••••	1½ pints	
Celery and celery tops, chopped.	5		1½ gallons	
Butter or other fat, melted	1	8	1½ pints	

Combine bread cubes, thyme, sage, salt and pepper.

Fry onions and celery in fat until clear. Add to bread. Mix lightly but thoroughly.

Place in greased baking pan. Brush with remaining fat.

Bake in moderate oven (350°F.) 1 hour.

NOTE.—1. 4 pounds (1 gallon) dressing will stuff 1 (16 pound) turkey.

- 2. 1 pound (1 quart) dressing will stuff 1 (4 to $4\frac{1}{2}$ -pound) roasting chicken.
 - 3. 8 ounces parsley, minced, may be added.

Variations

Cornbread Dressing

Use an equivalent amount of crumbled cornbread for the bread in Bread Dressing or Stuffing.

Nut Dressing

Use 1 pound any kind of nut, chopped or whole, in Bread Dressing or Stuffing.

Mushroom Dressing

Use 2 pounds mushrooms, chopped or whole, in Bread Dressing or Stuffing. If mushrooms are fresh, cook in fat with celery and onions.

Oyster Dressing

Cook 1/2 gallon oysters over low heat in oyster liquor until edges begin to curl. Drain. Add to Bread Dressing or Stuffing. Mix carefully.

Fruit Dressing

2 pounds cooked dried prunes or apricots, chopped, or 2 pounds raisins or apples, diced, may be added to Bread Dressing or Stuffing.

CHICKEN FRICASSEE

Portion: Approx. ½ to ¾ pound.

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Chicken (fowl), dressedOR	Pounds 70	Ounces 	14 (5-pound)	
Chicken (fowl), full drawn	52	•		
Flour	3		3/4. gallon	
Salt		6	3/4 cup	
Pepper	••••	1	$3\frac{1}{2}$ tablespoons	
Chicken fat or other fat	3		1½ quarts	
Water		•	To cover	4
Flour (for gravy)	2		½ gallon	
Water, cold (for gravy)			1 quart	
Milk, liquid	1 1 ₂ 1		½ gallon	· · · · · · · · · · · · · · · · · · ·
Salt (for gravy)	••••	2	1/4 cup	

Prepare chickens for cooking. Cut into portions.

Combine flour, salt and pepper. Dredge chicken in flour mixture.

Fry in fat until browned on all sides. Place in kettle and cover with water. Cover kettle.

Let simmer about $3\frac{1}{2}$ to 4 hours or until tender.

Combine flour and water. Blend to a smooth

paste.

Drain stock from chicken. Combine milk and enough stock to make $4\frac{1}{2}$ gallons.

Stir paste into stock. Cook, stirring constantly, until thickened. Let simmer 10 to 15 minutes.

Stir in salt. Pour over meat. Reheat.

Note.—Serve on cooked rice or mashed potatoes.

Portion: 6 to 8 ounces.

	H	100 F		
INGREDIENTS	WEIGHTS		Amounts (approx.)	PORTIONS
Chicken (fowl), dressedOR	Pounds 65	Ounces 	13 (5-pound)	
Chicken (fowl), full drawn	49			
Celery, coarsely chopped	2	* ****	½ gallon	
Onions, coarsely chopped	2		1½ quarts	
Carrots, diced	2	••••	½ gallon	
Salt	••••	6	3⁄4 cup	
Water			To cover	
Flour	2		½ gallon	
Water (for gravy)		••••	1 quart	

Prepare chicken for cooking. Cut into portions or leave whole. Place in kettle.

Add celery, onions, carrots and salt. Cover with water.

Cover tightly. Let simmer $3\frac{1}{2}$ to $4\frac{1}{2}$ hours or until tender.

Combine flour and 1 quart water. Blend to a smooth paste.

Drain stock from meat. Heat to boiling temperature. Stir in flour paste.

Cook, stirring constantly, until thickened. Let simmer about 10 minutes.

Combine meat and gravy. Reheat.

Note.—Serve with cooked rice or mashed potatoes.

Variations

Chicken and Biscuit with Gravy

Cook chickens whole. Remove meat from bones.

Scale out (weigh) 4-ounce portions. Place in baking pan.

Cover with thick Cream Gravy (page 212) or Chicken Gravy (page 212). Place unbaked biscuit on each portion of meat.

Bake in hot oven (425° F.) 15 to 20 minutes or until mixture bubbles and biscuits are browned.

Note.—1. Biscuit dough rolled ½ inch thick or pie dough rolled ¼ inch thick may be placed over top of mixture in place of individual biscuits.

2. Chicken Pie may be covered with topping of mashed potatoes. Bake in hot oven (425° F.) 10 to 15 minutes until browned.

Chicken Stew with Dumplings or Noodles

Drop dumplings (page 370) by spoonsful or noodles into stew. Cover tightly. Cook 15 to 20 minutes.

Yield: Approx. 5 gallons.

Portion: 6 to 8 ounces (approx. 1 cup).

Transmission		100 H		
Ingredients	WEIGHTS.		AMOUNTS (approx.)	Portions
Milk, liquid	Pounds	Ounces	1 gallon	
Chicken Stock (page 252)	****	••••	2 gallons	
Onion juice	••••		1/4 cup	
Mushrooms, sliced	1	4	½ gallon	
Chicken fat or other fat	2		1 quart	
Peppers, green, coarsely cut	1	8	1½ quarts	
Flour	1		1 quart	
Eggs, slightly beaten		13	8 (1½ cups)	
Chicken (fowl), cooked, cut in ½- to ¾-inch cubes.	10	12	2 gallons	
Pimiento, chopped	1	12	1 quart	
Salt		1½	3 tablespoons	

Combine milk, chicken stock and onion juice. Heat to boiling temperature.

Fry mushrooms in fat about 5 minutes. Remove from fat.

Cook green peppers in 1 quart of milk and stock mixture 8 to 10 minutes or until peppers are tender. Drain and add liquid to milk mixture.

Stir flour into fat. Blend to a smooth paste. Stir into milk mixture. Cook until thickened, stirring constantly.

Add 1 quart of sauce to eggs, stirring to prevent cooking of eggs.

Add egg mixture to sauce, stirring vigorously.

Stir mushrooms, green peppers, chicken, pimiento and salt into sauce. Reheat.

NOTE.—Serve on toast, split biscuits, cooked rice, noodles or on toasted cornbread.

Variation

Veal a la King

Use 10 pounds (2 gallons) veal, cooked, cut in $\frac{1}{2}$ to $\frac{3}{4}$ -inch cubes in place of chicken for Veal a la king.

CREAMED CHICKEN OR TURKEY

Yield: Approx. 5 gallons.

Portion: 6 to 8 ounces (approx. 1 cup)

· Ivanusaa		100 P	PORTIONS	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Chicken (fowl), cooked	Pounds 10	Ounces 12	2 gallons	
Chicken Stock (page 252)			2 gallons	
Milk, liquid	****		2 gallons	
Chicken fat, or other fat, melted.	2	••••		
Flour	1		1 quart	
Salt		11/2	3 tablespoons	
Pepper		1/4	1 tablespoon	

Cut chicken into 3/4 to 1-inch cubes.

Combine chicken stock and milk. Heat to boiling temperature.

Blend together fat and flour to a smooth paste. Stir into stock.

Cook, stirring constantly, until thickened. Add chicken. Reheat.

Stir in salt and pepper.

NOTE.—1. 2 gallons turkey, cooked and cubed, may be used in place of chicken.

2. Serve over split biscuits or corn bread, toast, cooked noodles or cooked rice.

Variations

Creamed Chicken or Turkey with Ham

Combine 6 pounds of chicken or turkey, cooked, cubed, with 4 pounds of ham, cooked, cubed.

Creamed Chicken with $Egg\overline{s}$

Add 2 dozen coarsely chopped hard-cooked eggs to creamed chicken.

BAKED CHICKEN AND NOODLES

Portion: Approx. 6 ounces.

Typenness	100 PORTIONS			
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Salt	Pounds	Ounces 3	6 tablespoons	
Water, boiling	****		5 gallons	
Noodles	7	••••	3¾ gallons	······································
Chicken or other fat	2	****	1 quart	
Flour	2		½ gallon	
Salt		4	½ cup	
Pepper		1/2	13/4 tablespoons	
Chicken Stock (page 252)			2½ gallons	
boiling. Egg yolks		6	9 (3/4 cup)	
Chicken (fowl), cooked, diced	10		13/4 gallons	
Bread crumbs, fine	íu <u>a</u> B	12	1½ quarts	
Butter, melted		8	1/2 pint	

Add 3 ounces salt to water. Heat to boiling temperature. Stir in noodles. Cook about 20 minutes or until tender. Drain.

Blend together fat, flour, 4 ounces salt and pepper to a smooth paste. Stir into stock. Heat to boiling temperature. Cook, stirring constantly, until thickened.

Add egg yolks, stirring constantly. Pour sauce over noodles. Stir in chicken. Place in greased baking pans.

Blend together crumbs and butter. Sprinkle over creamed mixture.

Bake in hot oven (400°F.) 30 minutes.

NOTE.—Egg yolks may be omitted.

Variation

Baked Chicken Dinner

Omit noodles and egg yolks.

Add 1 No. 10 can ($3\frac{1}{4}$ quarts) peas, 2 No. 10 cans ($6\frac{1}{2}$ quarts) corn and 2 pounds ($1\frac{1}{2}$ quarts) onions, chopped, to sauce and meat mixture.

Place in greased baking pans. Sprinkle with buttered crumbs.

Bake in hot oven (400°F.) 30 minutes.

Note.—Serve with cooked rice, if desired.

CHICKEN AND VEGETABLE PIE

Yield: Approx. 6 gallons.

Portion: Approx. 8 ounces.

	100 PORTIONS				
INGREDIENTS	WEIGHTS		Amounts (approx.)	pprox.)	
Chicken Stock (page 252)	Pounds	Ounces	3 gallons		
Chicken fat or other fat, melted.	1	4	1½ pints		
Flour	1		1 quart		
Salt	****	21/2	5 tablespoons		
Pepper	****	1/2	1 tablespoon		
Chicken (fowl), cooked, cut in 3/4-inch cubes.	10	12	2 gallons		
Potatoes, cooked, cubed	3	4	½ gallon		
Peas, cooked	2	8	1 quart		
Carrot strips, cooked	1	••••	1 quart		
Pie Dough (page 399)	5	••••			

Heat stock to boiling temperature.

Blend fat, flour and salt to a smooth paste. Stir into stock. Cook, stirring constantly, until thickened.

Add chicken, potatoes, peas and carrots. Place in baking pans.

Roll pie dough 1/8 to 1/4 inch thick. Perforate.

Place over chicken mixture. Bake in hot oven (450°F.) 10 to 15 minutes.

Note.—Biscuits or Biscuit Dough (page 361) may be used in place of pie dough.

Portion: 2 croquettes.

	100 PORTIONS			
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Chicken (fowl), cooked, finely chopped.	Pounds 16	Ounces	4 gallons	
Salt		2	1/4, cup	
Pepper		1/2	13/4 tablespoons	
Onions, finely chopped	4	****	3/4 gallon	
Butter or other fat	2		1 quart	
Flour (for dredging)	1	8	1½ quarts	
Chicken Stock (page 252)			½ gallon	
Eggs, whole	2	8	25 (11/4 quarts)	
Bread crumbs, dry	3		3¾ quarts	
lour				
Eggs, beaten	1		10 (1 pint)	
Iilk, liquid			1 quart	
Bread crumbs				

Sprinkle chicken with salt and pepper.

Fry onions in fat until clear.

Add flour and blend to a smooth paste. Stir in stock. Cook until thickened, stirring constantly. Remove from heat. Cool slightly.

Stir in eggs and bread crumbs. Mix thoroughly. Place in refrigerator until chilled.

Shape cold mixture into $3\frac{1}{2}$ to 4-ounce croquettes.

Stir beaten eggs into milk. Mix well. Roll croquettes in flour. Dip in milk mixture. Roll in bread crumbs.

Fry in hot deep fat at 375°F. 3 to 4 minutes or until browned.

Note.—Turkey may be used in place of chicken.

Variation

Baked Chicken or Turkey Croquette Loaf

Bake croquette mixture in well greased baking pans in slow oven (325°F.) 1 hour.

Slice or cut in squares for serving.

Gravies and Sauces

Gravies and sauces are a very important part of the meal because they add the finishing flavor to the main dish or dessert. They also extend the main dish, provide contrasting texture and add variety to the menu.

The gravy or sauce must be seasoned exceptionally well and must also be a perfect accompaniment to the meat, fish, vegetable or dessert with which it is to be served.

BARBECUE SAUCE

Yield: Approx. 2 gallons.

Portion: Approx. 1/3 cup.

		100 F	PORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Onions, chopped	Pounds 1	Ounces 8	4½ cups	
Bacon fat or other fat	2	****	1 quart	
Flour		4	1 cup	
Mustard prepared	****	8	1 pint	
Cloves, ground		3/4	3 tablespoons	
Salt	••••	21/2	5 tablespoons	
Pepper	****	1/2	13/4 tablespoons	
Sugar, brown	••••	8	1½ cups	
Vinegar			1 quart	
Meat Stock (page 251)	••••		½ gallon	
Catsup			1 gallon	
Worcestershire sauce			1 pint	

Cook onions in fat until clear and tender.

Mix flour, mustard, cloves, salt, pepper and sugar. Stir into enions and fat.

Add vinegar, stock, catsup and Worcestershire sauce, stirring constantly.

Heat to boiling temperature. Let simmer 15 minutes.

Note.—1. 1 gallon fruit juice or juice from sweet pickles may be used in place of vinegar.

2. Serve with meats. May also be used in place of liquid in Beef Loaf (page 135), Stuffed Green Peppers (page 143), or for basting meats while roasting.

THIN CREAM OR WHITE SAUCE For Cream Soups

Portion: 1/4 cup (approx. 2 ounces).

GALLONS	Portions						
10 GALLONS	500 Portions	Amounts (approx.)	21/4 quarts	$2\frac{1}{8}$ quarts	9 gallons	11/4 cups	3 tablespoons
10 GA	500 Pc	HTS	Ounces 8	4		10	8 D s
		Weights	Pounds Ounces 4	2	*	5 3 0 8	
ALLONS	Portions	Amounts (approx.)	11/8 quarts	4½ cups	41/2 gallons	10 tablespoons	11/2 teaspoons
5 GAI	250 Po	HTS	Ounces 4	23	:	ಬ	;
		WEIGHTS	$\left \begin{array}{c} Pounds \\ 2 \end{array}\right \left \begin{array}{c} Ounces \\ 4 \end{array}\right $	H		i	:
1 GALLON	50 Portions	AMOUNTS (approx.)	1 cup	1 cup	1 gallon	2 tablespoons	1 teaspoon
1 GA	50 Po	WEIGHTS	Pounds Ounces	4	:	1	
YIELD		INGREDIENTS	other fat,	melted. Flour	Milk, liquid, hot	Salt	Pepper

Blend fat and flour to a smooth paste. Stir rapidly into hot milk. Cook until thickened. Stir constantly. Add salt and pepper.

MEDIUM CREAM OR WHITE SAUCE For Creamed Vegetables

Portion: 1/4 cup (approx. 2 ounces).

GALLONS	Portions							
10 GALLONS	500 Portions	Amounts (approx.)	31/4 quarts	31/4, quarts	9 gallons	11/4 cups	31/2 tablespoons.	
10 GA	500 Po	Weights	$\left \begin{array}{c} Pounds \\ 6 \end{array} \right \left \begin{array}{c} Ounces \\ 12 \end{array} \right $	9		10	1	
				WEI	Pounds 6	ಣ		
GALLONS	250 Portions	AMOUNTS (approx.)	63/4 cups	63/4 cups	41/2 gallons	10 tablespoons	2 tablespoons	
5 GAI	250 Po	250 Pc	WEIGHTS	Ounces 6	11	1	ಸಲ	*
		WEIG	Pounds Ounces 6	н		* * * * * * * * * * * * * * * * * * * *	•	
CLÓN	50 Portions	AMOUNTS (approx.)	1½ cups	1½ cups	1 gallon	2 tablespoons	11/2 teaspoons	
1 GALLON	50 Po	WEIGHTS	Pounds Ounces	9	0 0	-		
		WEI	Pounds	1	-	:	:	
YIELD		INGREDIENTS	Butter or other fat,	Flour	Milk, liquid, hot	Salt	Pepper	

Blend fat and flour to a smooth paste. Stir rapidly into hot milk. Cook until thickened. Stir constantly. Add salt and pepper.

MEDIUM THICK CREAM OR WHITE SAUCE For Escalloped Dishes

Portion: 1/4 cup (approx. 2 ounces).

GALLONS		Portions					8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
10 GALLONS	500 Portions	AMOUNTS (approx.)	11/8 gallons	11/8 gallons	9 gallons	11/2 cups	6 tablespoons
10 GA	500 P	WEIGHTS	Pounds Ounces	8		12	:
		WEI	Pounds 9	4		*	0 0 0
GALLONS	250 Portions	AMOUNTS (approx.)	21/4 quarts	21/4 quarts	41/2 gallons	34 cup	3 tablespoons
5 GAL	250 Po	WEIGHTS	Ounces 8	4		61/2	9 8
		WEIG	Pounds Ounces	2	•		:
1 GALLON	50 Portions	Amounts (approx.)	1 pint	1 pint	1 gallon	21/2 tablespoons.	2 teaspoons
1 GA	50 Po	WEIGHTS	Pounds Ounces	∞	:	1/4	b 0 0 0
		WEI	Pounds 1		6 6 5 5		0 0 8 8
YIELD	,	INGREDIENTS	Butter or other fat,	Flour	Milk, liquid, hot	Salt	Pepper

Blend fat and flour to a smooth paste. Stir rapidly into hot milk. Cook until thickened. Stir constantly. Add salt and pepper,

THICK CREAM OR WHITE SAUCE For Croquettes

Portion: 1/4 cup (approx. 2 ounces)

	GALLONS		Portions	-						
	10 GALLONS	500 Portions	AMOUNTS (approx.)	61/2 quarts	61/2 quarts	9 gallons	13/4 cups	6 tablespoons		
	10 GA	500 Pc	500 Pc	500 P	WEIGHTS	Pounds Ounces 13	12	1 1	15	*
	i		WEI	Pounds 13	9	1 1 1 1	8 9 9			
	GALLONS	250 Portions	Amounts (approx.)	31/4 quarts	31/4 quarts	41/2 gallons	.78 cup	3 tablespoons		
	5 GAI	250 Pc	250 Pe	WEIGHTS	Ounces 12	9		L		
			WEI	Pounds Ounces	ಣ	:	B 0 0			
	1 GALLON	50 Portions	AMOUNTS (approx.)	11/2 pints	11/2 pints	1 gallon	11/2 3 tablespoons	2 teaspoons		
. ()	1 GA]	50 Por	Weights	Ounces 8	12		11/2	9 9 0		
			WEIG	Pounds Ounces 1		1				
	YIELD		INGREDIENTS	Butter or other fat,	Flour	Milk, liquid, hot	Salt	Pepper		

Blend fat and flour to a smooth paste. Stir rapidly into hot milk. Cook until thickened, stirring constantly. Stir in salt and pepper.

Note.—1. 1 gallon will require cooking from 7 to 10 minutes.

Larger quantities require a longer cooking period.

hot 2. Meat stock, vegetable cooking waters and liquor drained and from canned vegetables may be used in place of milk. Liquid drained from canned salmon or tuna fish may be used in place of tes.

CREAM OR WHITE SAUCE VARIATIONS

SAUCE	Additional Ingredients for	AMOUNTS				
SAUCE	1 GALLON CREAM SAUCE	WEI	GHTS	AMOUNTS (approx.)		
Bacon	Bacon, cooked, diced	Pounds 1	Ounces 4			
Caper	Capers, drained			½ pint		
Cheese	,	1	8	11/4 quarts		
Egg	or chopped. Eggs, hard-cooked, chopped	****		8		
Horse-radish	Horse-radish, prepared, drained			1½ to 2½ cups		
	Mustard, dry	••••		1½ tablespoons		
	Paprika		••••	1 teaspoon		
Mushroom	,,,,,	1	4	1¾ quarts		
	OR Mushrooms, canned, sliced			$1\frac{1}{2}$ pints		
	Onions, minced		3	2/3 cup		
	Butter (for frying onions)		4	½ cup		
Parsley	Parsley, finely chopped		6	1 pint		
Pimiento	Pimientos, diced		15	1 (15-oz.) can 1 pint		
Pepper	Peppers, red, sweet, chopped		2	½ cup		
	Peppers, green, sweet, chopped		4	1 cup		
	Pickle relish or sweet pickles		6	1 cup		
	chopped. Mustard and celery seed			½ teaspoon		

Yield: Approx. 2 gallons.

Portion: 1/4 cup (approx. 2 ounces).

	100 PORTIONS			7	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions	
Chicken or Veal Stock (page 252)	Pounds	Ounces 			
Milk, liquid	****	****	½ gallon		
Bay leaves	****	••••	2		
Onions, chopped	1		1½ pints		
Butter or other fat	1	****	1 pint		
Flour		8	1 pint		
Thyme	••••		2 teaspoons		
Salt		1/2	4 teaspoons		
Pepper		=	1 teaspoon		

Combine stock and milk. Add bay leaves. Heat to boiling temperature. Remove bay leaves.

Fry onions in fat about 10 minutes or until clear.

Blend together flour, thyme, salt, pepper and onion mixture to a smooth paste.

Stir into hot stock. Cook until slightly thickened, stirring constantly.

Note.—1. For a yellow sauce, stir the sauce into beaten yolks of 16 eggs.

- 2. Thyme and bay leaves may be omitted.
- 3. Serve with croquettes.

BOUILLON CUBE GRAVY

Yield: Approx. 2 gallons.

Portion: 1/4 cup (approx. 2 ounces).

Tarantanana		100 F	Donmer	
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Water, boiling	Pounds	Ounces 	2 gallons	
Bouillon cubes	0=00	****	30	
Bacon fat, melted		••••	1 pint	
Flour	1		1 quart	

Pour ½ gallon water over bouillon cubes and dissolve.

Add remaining water.

Blend together bacon fat and flour. Cook until browned, stirring constantly.

Gradually add bouillon to flour mixture, stirring constantly.

Heat to boiling temperature.

Cook 5 minutes.

Yield: Approx. 2 gallons.

Portion: Approx. 1/3 cup.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Fat from meat drippings, melted.	Pounds 1	Ounces	1 pint	
Flour	1		1 quart	
Meat Stock (page 251)	••••		2 gallons	P-
Salt		1	2 tablespoons	
Pepper	••••	••••	2 teaspoons	

Blend fat and flour well. Cook until flour is browned, stirring constantly.

Add stock slowly, stirring constantly.

Cook until thickened and smooth. Add salt and pepper.

Variations

Cream Gravy

Use 1 gallon liquid milk in place of 1 gallon meat stock.

Onion Gravy

Slice 2 pounds (1½ quarts) onions and fry until golden brown. Add to gravy.

Vegetable Gravy

Season gravy with $1\frac{1}{2}$ quarts cooked chopped onions, diced celery, diced carrots, and peas.

CHICKEN GRAVY

Yield: Approx. 2 gallons.

Portion: 1/4 cup (approx. 2 ounces).

		100 P	Democratic	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Chicken Stock (page 252)	Pounds	Ounces 	1 gallon	
Milk, liquid	****	••••	1½ gallons	
Fat from fried chicken, drippings, melted.	1		1 pint	<u> </u>
Flour	1		1 quart	1
Salt	****	1	2 tablespoons	
Pepper			2 teaspoons	

Combine chicken stock and milk. Heat to boiling temperature.

Blend together fat and flour. Stir into stock. Cook 10 to 15 minutes or until thickened and

smooth, stirring constantly.

Stir in salt and pepper.

Note —Use drippings from roast chicken for gravy for roast chicken.

Yield: Approx. 3 gallons.

Portion: Approx. 1/2 cup.

		100 P	ORTIONS	
INGREDIENTS	WEI	GHTS	Amounts (approx.)	Portions
Salt pork, diced	Pounds 3	Ounces	1 quart	
Onions, chopped	1	5	1 quart	
Celery, chopped	1	•	1 quart	
Bay leaves, minced	••••		3	
Cloves, whole		1/4	1½ tablespoons	
Tomatoes	12	12		· · · · · · · · · · · · · · · · · · ·
Water	••••		quarts). 1 gallon	
Sugar	0900	8	½ pint	
Flour	****	3	3/4 cup	
Water	****	****	½ pint	

Fry salt pork 5 to 10 minutes or until well browned.

Add onions and celery and fry about 5 minutes, until lightly browned.

Add bay leaves and cloves, tied in cloth bag, tomatoes, water and sugar. Let simmer 1 hour.

Blend together flour and ½ pint water to a smooth paste. Stir into sauce. Continue simmering 30 minutes. Remove spice bag.

Note.—Serve with omelet, macaroni, fish or meats.

MINT SAUCE

Yield: 1 gallon.

Portion: 2 tablespoons (approx. 1 ounce).

Typoporove		100 F	Department		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions	
Mint, fresh, chopped	Pounds	Ounces 	½ gallon		
Sugar	1	8	1½ pints		
Vinegar			3/4 gallon		

Remove stems and old leaves from mint. Wash thoroughly.

Drain mint and chop fine. Add sugar and mix.

Let stand about 1/2 to 1 hour.

Add vinegar. Let stand 1 hour or longer

before using.

NOTE.—1. If vinegar is too strong, dilute it with water.

- 2. An excellent sauce for lamb.
- 3. Mint or currant jelly may be used in place of Mint Sauce.

Yield: 11/4 gallons.

Portion: Approx. 1½ tablespoons (¾ ounce)

Lyannyana		100 P		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Butter, melted	Pounds 2	Ounces 	1 quart	
Flour	1	••••	1 quart	
Milk, liquid, hot			3/4 gallons	
Eggs, beaten	1	13	18 (13/4 pints)	
Lemon juice			1½ cups (6 lemons)	
Salt	••••	1	2 tablespoons	·····
Pepper			1 tablespoon	
Paprika	••••	••••	1 tablespoon	

Blend together fat and flour. Stir into milk. Add eggs and lemon juice gradually, stirring constantly.

Heat to boiling temperature. Add salt, pepper and paprika.

Simmer 20 to 30 minutes. Beat constantly.

DRAWN BUTTER SAUCE

Yield: Approx. 1 gallon.

Portion: 2 tablespoons (approx. 1 ounce).

Ingredients		100 P	ORTIONS	
	WEI	GHTS	AMOUNTS (approx.)	TIONS
Butter	Pounds 1	Ounces 	1 pint	•
Flour	****	8	1 pint	••••••••
Water, boiling		••••	1 gallon	
Salt	••••	3/4	$1\frac{1}{2}$ tablespoons	
Pepper			1 teaspoon	

Melt about $\frac{2}{3}$ of the butter. Stir in flour and blend to a smooth paste.

Add mixture to boiling water. Cook until thickened, stirring constantly.

Add salt, pepper and remaining butter. Mix thoroughly.

NOTE.—This is a particularly good sauce for asparagus, broccoli, boiled new potatoes, baked and broiled fish.

Vaiations

Drawn Butter Sauce with Lemon

Use ½ cup lemon juice in place of ½ cup water. Stir into sauce after it has been thickened.

Drawn Butter Sauce with Chopped Egg

Add 10 hard-cooked eggs, diced or chopped, to Drawn Butter Sauce just before serving.

MUSTARD SAUCE

Yield: Approx. 1 gallon.

Portion: 2 to 3 tablespoons (1 to 1½ ounces).

		100 P		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Mustard, dry	Pounds	Ounces 7	1 pint	
Sugar	1	-***	1 pint	
Flour	••••	8	1 pint	
Salt	••••	2	½ cup	
Water, cold		****	1 gallon	
Vinegar	••••	••••	1 quart	
Butter or other fat, melted		2	1/4 cup	

Mix together thoroughly mustard, sugar, flour and salt.

Stir in $\frac{1}{2}$ gallon water. Heat to boiling temperature.

Cook 5 minutes or until thickened, stirring constantly.

Heat remaining water to boiling temperature. Stir water and vinegar into mustard mixture.

Heat to boiling temperature. Stir in butter.

Cook until slightly thickened, stirring continuously.

FRESH PINEAPPLE SAUCE

Yield: Approx. 2 gallons.

Portion: 1/4 cup (approx. 2 ounces).

Ingredients		100 F		
	WE	IGHTS	AMOUNTS (approx.)	Portions
Sugar	Pounds 3	Ounces	1½ pints	
Water	****		1 gallon	
Pineapple, fresh, peeled and chopped fine.	8	• • •	½ gallon	

Combine sugar and water. Heat until sugar is dissolved.

Add pineapple. Heat to boiling temperature. Let simmer until pineapple is clear and tender,

stirring occasionally. Serve immediately.

Note.—An excellent sauce to serve with baked ham.

Yield: 1½ gallons.

Portion: 3 tablespoons (approx. 11/2 ounces).

		100 P		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Water, boiling	Pounds	Ounces 	1 gallon	
Cloves, whole			2 tablespoons	
Raisins, seedless	2	5	½ gallon	
Sugar, brown	4		3/4 gallon	
Flour	 -	8	1 pint	
Salt	••••	1/2	1 tablespoon	
Butter, melted	****	8	1 cup	
Catsup			1½ cups	

Combine water and cloves. Heat to boiling temperature.

Cook 10 minutes. Strain. Add raisins. Cook 5 minutes.

Mix together sugar, flour and salt. Stir into water and mix until smooth.

Heat to boiling temperature. Cook 10 minutes or until thickened. Remove from heat. Stir in butter and catsup.

Note.—Serve with baked ham or cold sliced pork.

SPICE SAUCE

Yield: Approx. 2 gallons.

Portion: Approx. 1/3 cup.

		100 F		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Onions, finely chopped	Pounds 1	Ounces	3/4 quart	
Meat Stock (page 251) or water.			1 gallon	
Worcestershire sauce	••••		1 cup	
Catsup			1 pint	
Sugar		8	1 cup	
Vinegar			½ gallon	

Mix together onions, stock or water, Worcestershire sauce, catsup, sugar and vinegar.

Heat to boiling temperature. Cook 5 minutes. Note.—An excellent sauce for meats.

Yield: Approx. 21/4 gallons.

Portion: Approx. 1/3 cup.

		100 P	Portions	
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	PORTIONS
Tomatoes	Pounds 12	Ounces 12	2 No. 10 cans (6½ quarts).	
Onions, chopped	1	5	- '	
Peppers, green, diced	1	<u></u>	1 quart	
Peppers, red, sweet, diced	1		1 quart	
Mushrooms, fresh, sliced	1	8	½ gallon	
Butter or other fat		8	1 cup	
Flour		2	½ cup	
Salt		1	2 tablespoons	
Sugar		2	½ cup	
Chili powder	••••		½ teaspoon	
Water	****		1/2 pint	

Heat tomatoes to boiling temperature.

Fry onions, peppers and mushrooms in fat slowly until soft.

Stir in flour and cook about 2 minutes.

Mix together salt, sugar and chili powder. Add water and stir. Combine all ingredients, stirring until mixture reaches boiling temperature.

- NOTE.—1. ½ pint Meat Stock (page 251) may be used in place of water.
- 2. Serve with omelet, roast beef, steak, lamb chops or veal roast.

STEAK BUTTER

Yield: Approx. 1½ quarts.

Portion: 1 tablespoon (approx. ½ ounce).

	•	100 P	=	
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Butter	Pounds 2	Ounces	1 quart	•
Onions, minced		8	1½ cups	
Lemon juice			1/2 pint (4 lemons)	
Salt	****	1	2 tablespoons	
Pepper			½ teaspoon	

Beat butter until creamy. Add onions, lemon juice, salt and pepper. Mix thoroughly.

NOTE.—Serve with steak or Beefburgers (page 136).

Yield: Approx. 1/2 gallon.

Portion: 11/2 tablespoons (approx. 3/4 ounce).

Technology		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Capers	Pounds	Ounces	½ cup	
Olives, stoned, chopped	****	••••	½ cup	
Pickles, finely chopped		3	½ cup	
Onions, finely chopped	····	11/2	½ cup	
Parsley, finely chopped		1	½ cup	
Mayonnaise (page 237)	4		½ gallon	

Combine capers, olives, pickles, onion and parsley. Stir into mayonnaise. Mix well.

NOTE.—Serve with fried cod, haddock, halibut, smelts or oysters.

TOMATO SAUCE

Yield: Approx. 2 gallons.

Portion: Approx. 1/3 cup.

	<	100 P		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Tomatoes	Pounds 12	Ounces 12	2 No. 10 cans $(6\frac{1}{2})$ quarts).	
Meat Stock (page 251)		••••		
Sugar	••••	4	½ cup	
Garlic			1 clove	
Bay leaves			4	
Cloves		-	1 tablespoon	
Pepper			1 tablespoon	
Salt		1	2 tablespoons	
Butter, melted or beef drip-	1	••••	1 pint	
pings. Flour	1	****	1 quart	
Vinegar			1 tablespoon	

Combine tomatoes, meat stock and sugar. Add garlic, bay leaves, cloves, pepper and salt. Heat to boiling temperature.

Blend together butter and flour to a smooth paste. Stir into heated mixture. Add vinegar.

Continue cooking and stirring until mixture is well thickened. Strain.

Note.—An excellent sauce for baked fish, veal cutlets and baked stuffed peppers.

TOMATO PUREE SAUCE

Yield: 2½ gallons.

Portion: Approx. 1/3 cup.

		100 P	ORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Onions, dehydrated	Pounds	Ounces 2	1 cup
Water, for onions			1 pint
Fat	1	8	1½ pints
Tomato puree	13	F	2 No. 10 cans (6½
Sugar	1	8	quarts). 1½ pints
Salt		4	½ cup
Pepper		1/4	1 tablespoon
Meat Stock (page 251)			3/4 gallon

Soak onions in water for 20 minutes. Drain. Cook in fat until clear.

Add tomato puree, sugar, salt, pepper, and stock. Mix well. Heat to boiling temperature.

NOTE.—1. Especially good sauce to use for baking with meat or fish.

2. Meat stock may be made with $1\frac{3}{4}$ ounces powdered bouillon or 12 bouillon cubes dissolved in $\frac{3}{4}$ gallon boiling water.

Salads

Salads have a recognized and important place on the menu and make a nutritious and refreshing contribution to the dinner or supper meal.

Fruit and vegetable salads are the most popular and as such are one of the best means of introducing valuable vitamins, essential minerals and color into the meal.

If a few simple rules for making salads are observed, these salads, selected for the Navy Mess, can be made quickly and easily and served frequently.

Salad Greens

Select salad greens carefully.

Lettuce, endive, romaine, escarole, watercress, young spinach and cabbage offer an abundant choice for the greens which can be best used as a foundation or as one of the main ingredients in the salad itself. Parsley, watercress and the inner tender leaves of curly endive can be used to advantage as a garnish.

Sort, trim, wash and crisp the greens before making the salad. Wash them carefully to free them of sand and earth particles. Drain well.

Cut lettuce and cabbage into strips or pieces or shred them, when they are to be used as one of the main ingredients in the salad.

Place the prepared greens in pans; cover them with wax paper, if available, then with a clean, damp cloth. Place them in a refrigerator to chill and crisp before using. They should be free of excess water and be one of the very last parts of the meal to be prepared.

Fruits and Vegetables

Select these with care and wash them thoroughly. Trim and peel if necessary. Cut them into uniform sizes. Cook the vegetables which need cooking. Place the prepared material, covered, in a refrigerator to be chilled before combining with salad greens and dressing.

Combining the Salad Ingredients

Mix the salad carefully just before serving.

Combine the prepared, chilled ingredients in small amounts at a time. Mix or toss them lightly together. Use a large fork to thoroughly distribute the ingredients and dressing.

The Salad Dressing

The salad dressing is as important as the salad itself. It brings a distinctive flavor to the salad. Each type dressing can take on a new flavor by the addition of various seasonings and herbs.

As a rule, the dressing should be the last ingredient to be added to the salad. This rule should be strictly followed for fruit salads and mixed greens. It should be added just about 5 minutes before placing the salad on the serving counter. An exception may be made for meat, fish, vegetable and potato salads. Adding the dressing to these salads 1 hour in advance of serving, and placing the salad mixture in a refrigerator to be chilled, will greatly improve the flavor of the salad.

The salad dressing, and approximate amount necessary, is specified in each salad recipe.

Serving the Salad

Select as cool place as possible. If necessary to serve from the steam table, place the salad container away from the heat of the steam.

Bring the salad from the refrigerator in small amounts at a time. In this way the salad will be cool, refreshing and the greens will remain fresh and crisp.

Place the salad container in a pan of ice, when possible. This will assure firmness in gelatin mixtures and prevent wilting of the salad greens.

Sprigs of crisp parsley, radish roses, carrot strips or celery curls or other simple garnish, can readily be arranged on top or around the salad. This should be the finishing touch and will add greatly to the attractiveness of the salad.

AVOCADO AND LETTUCE SALAD

Portion: Approx. 1/2 cup lettuce (1/2 avocado).

		100 F	Departure		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	PORTIONS	
Avocados, ripe	Pounds	Ounces	50		
Lettuce, coarsely cut	3		1½ gallons		
French Dressing (page 239)			1/2 gallon		

Cut avocados into halves. Do not peel. Remove stone.

Serve in the peel, with crisp lettuce and French Dressing or Thousand Island Dressing (page 240).

Note.—1. Avocados may be peeled and cut into strips or sliced, if desired.

- 2. Avocados should not be cut until ready to serve as they discolor rapidly. Sprinkling cut pieces with lemon juice will help prevent discoloration.
- 3. In order to avoid waste, the lettuce and avocados should be placed in separate containers or trays on the serving counter, allowing each man to make his own selection.

BAKED BEAN AND EGG SALAD

Yield: Approx. 5 gallons.

Portion: 3/4 cup (approx. 4 ounces).

		100 P	Deperation	
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Beans, baked	Pounds 12	Ounces 	2 gallons	
Celery, diced	5	••••	1½ gallons	
Pickles, sweet, diced	2	8	1/2 gallon	
Lettuce or chicory	6		3 gallons	
Onions, green, chopped	1	4	1 quart	
Eggs, hard-cooked, chopped			36 (2½ quarts)	
Salt	F	3	6 tablespoons	
"Boiled" Salad Dressing (page 238).	••••	••••	To moisten	

Combine beans, celery, pickles, lettuce, onions and eggs. Sprinkle with salt.

Add dressing. Mix together lightly and care-

fully.

NOTE.—Use large fork for mixing salad in order to avoid mashing the ingredients.

Yield: Approx. 5 gallons.

Portion: 3/4 cup (approx. 3 ounces).

		100 P	ORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Carrots, shredded	Pounds 12	Ounces 	3 gallons
Celery, diced	5		11/4 gallons
Lettuce	2		1 gallon
Mayonnaise (page 237)	2	••••	1 quart

Combine carrots, celery and lettuce. Mix thoroughly. Add mayonnaise. Toss lightly and mix until blended.

Variations

Carrot and Raisin Salad

Use 15 pounds (3³/₄ gallons) carrots, shredded, and 2 pounds raisins, washed.

Beet and Celery Salad

Use 26 pounds (33/4 gallons) cooked or pickled beets, sliced or quartered, in place of carrots.

NOTE.—3 pounds (3/4 gallon) onions, sliced, may be used in place of celery.

Carrot, Celery and Apple Salad

Use 5 pounds apples, washed, cored and cubed in place of 5 pounds carrots.

CARDINAL SALAD

Yield: Approx. 5 gallons.

Portion: 2/3 cup (approx. 6 ounces).

		100 P	ORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beets, cooked, diced	Pounds 9	Ounces 4	1½ gallons	
Beans, green, cooked, diced	6	12	1½ gallons	
Peas, cooked	5		½ gallon	
Celery, diced	6		1½ gallons	
Onions, chopped	1	4	1 quart	
Salt		4	1/2 cup	
Lettuce, coarsely cut	2		1 gallon	
Mayonnaise (page 237)	4		½ gallon	

Combine beets, green beans, peas, celery and onions.

Sprinkle with salt. Add lettuce and mayon-naise.

Toss lightly until well mixed. Serve immediately.

NOTE.—1. 2 No. 10 cans $(1\frac{1}{2}$ gallons)

beets, drained, 2 No. 10 cans (1½ gallons) beans, drained, and 1 No. 10 can (3¼ quarts) green peas, drained, may be used in place of fresh beets, peas and beans.

2. Equivalent amounts of other fresh vegetables, cooked or canned vegetables, drained, may be used.

GRAPEFRUIT AND CELERY SALAD

Yield: Approx. 5 gallons.

Portion: 34 cup (approx. 6 ounces).

		100 I	Depressed	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Grapefruit sections, halved	Pounds 32	Ounces	3 gallons	
Celery, diced	4	••••	1 gallon	
Lettuce, coarsely cut	2		1 gallon	
Mayonnaise (page 237)	4		½ gallon	

Drain grapefruit. Reserve juice.

Mix together grapefruit, celery and lettuce.

Add mayonnaise. Toss lightly until well

Add mayonnaise. Toss lightly unti-

NOTE.—1. Grapefruit juice may be used for fruit punch, fruit cup or as plain fruit juice.

2. Fresh or canned grapefruit may be used.

Variation

Grapefruit and Green Pepper Salad

Use $3\frac{1}{2}$ pounds (1 gallon) green pepper, cut in 1-inch strips in place of celery.

COLE SLAW

Yield: Approx. 5 gallons.

Portion: 34 cup (approx. 4 ounces).

		100 F	PORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Cabbage, shredded	Pounds 20	Ounces	5 gallons
Onion, minced		5	1 cup
Peppers, green, diced	1	•	1 quart
Salt		1/2	1 tablespoon
"Boiled" Salad Dressing (page 238).	4		½ gallon

Combine cabbage, onion and green pepper. Sprinkle with salt.

Add dressing just before serving. Toss lightly until well mixed.

Note.—Diced oranges, grapefruit, pears, apples, pineapple or peaches may be used to vary Cole Slaw. Diced celery, chopped tomatoes, shredded carrots or diced cucumbers also may be used.

Variations

Banana Cole Slaw

30 to 40 ripe bananas, sliced, in place of 2 gallons cabbage, 6 tablespoons lemon juice and

3/4 cup prepared mustard, added to above ingredients makes a delicious, different cabbage salad.

Old Fashioned Cole Slaw

Omit onion and green pepper. Add hot "Boiled" Salad Dressing (page 238). Toss lightly to mix well. Cool.

Hot Cabbage Slaw

Omit onion, green pepper, and salt. Mix shredded cabbage with ½ gallon Hot Bacon Dressing (page 238) just before serving.

COLE SLAW

(Using dehydrated cabbage)

Portion: Approx. 4 ounces (approx. \(\frac{2}{3} \) cup).

		100 P	PORTIONS	
INGREDIENTS	WEIGHTS		. Amounts (approx.)	Portions
Cabbage, dehydrated	Pounds 2	Ounces 8	2½ gallons	
Water, cool (for cabbage)	<u>-</u>		21/4 gallons	
Onions, dehydrated	1	••••	1 quart	
Water, cool (for onions)			½ gallon	
Salt	••••	71/2	7/8 cup	
Pepper	= =	1/2	13/4 tablespoons	
Vinegar			2½ quarts	

Soak cabbage in water $3\frac{1}{2}$ to 4 hours to reconstitute.

Soak onions in water 45 to 60 minutes to reconstitute.

Combine onions, salt, pepper and vinegar. Let stand until cabbage is ready.

Drain all surplus water from cabbage. Combine with onion-vinegar mixture. Serve cold. Note.—1. Long soaking of cabbage at

high temperature develops an unsatisfactory flavor and off-color.

- 2. Place in refrigerator, to soak, if possible. If ice is available, add a small piece to the water in which cabbage is to be soaked.
- 3. Soaking cabbage for Cole Slaw for a period longer than 4 hours, unless under refrigeration, is not desirable because of the possibility of spoilage.

CHICKEN SALAD

Yield: Approx. 5 gallons.

Portion: 3/4 cup (approx. 5 ounces).

		100 F		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Fowl, cooked (page 201), diced, 60 lbs. A. P. Celery, diced	Pounds 15 E.P.	Ounces	23/4 gallons	
Lettuce, coarsely cut	3	<u> </u>	1½ gallons	
Salt		4	1/2 cup	
Mayonnaise (page 237)	3	I	1½ quarts	

Combine chicken, celery and lettuce.

Sprinkle with salt.

Stir in mayonnaise. Toss until well mixed.

Variation

Veal Salad

15 pounds cooked veal or cooked veal and ham may be used in place of chicken.

Yield: Approx. 5 gallons.

Portion: 3/4 cup (approx. 6 ounces).

		100 P	Depressor	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Vinegar	Pounds	Ounces 	23/4 quarts	
Water		••••	23/4 quarts	
Sugar		12	3/4 pint	
Salt		3	6 tablespoons	
Pepper			11/4 tablespoons	
Cucumbers, sliced, chilled	· 21		4 gallons	
Onions, sliced thin	9	8	1¾ gallons	

Mix together vinegar, water, sugar, salt and pepper.

Combine crisp cucumber slices with onions.

Pour vinegar dressing over cucumber and onions.

Serve immediately.

Note.—Any of these vegetables alone or in combinations, may be added: radishes, sliced; tomato sections; green sweet pepper, shredded; celery, diced; cauliflower, raw, chopped; carrots, raw, chopped; beets, cooked, sliced.

FRUIT SALAD

Yield: Approx. 5 gallons.

Portion: 3/4 cup (approx. 5 ounces).

		100 P		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Apples, A. P.	Pounds 8	Ounces 		
Pineapple, drained, diced	16	••••	2 gallons	
Oranges, diced	8	****		
Lettuce, coarsely cut	2	****	dium) 1 gallon	=
French Dressing (page 239)		•	1 quart	

Wash and core apples. Cut into ½-inch cubes.

Combine apples, pineapple, oranges and lettuce.

Just before serving add dressing. Toss lightly and serve immediately.

Note.—1. 7 to 8 ripe bananas, sliced (1 quart) may be added just before serving.

2. A combination of any fresh fruits or canned fruits, drained, may be used. Reserve drained juice for fruit punch.

Portion: 34 cup (approx. 3 ounces).

Lyangyaya		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Lettuce, coarsely cut	Pounds 15	Ounces 	7½ gallons	
French Dressing (page 239)			1½ quarts	

Mix together lettuce and dressing. Toss lightly to mix.

NOTE.—1. Escarole, chicory, watercress, raw spinach and other salad greens may be used.

2. The inner, tender leaves of head lettuce should be used for Hearts of Lettuce Salad.

Variations

Lettuce and Tomato Salad

Mix together 10 pounds lettuce, coarsely cut, and 5 pounds tomatoes, cut in small wedges.

Just before serving add 1 quart French Dressing (page 239).

Tossed Green Salad

7½ gallons coarsely cut escarole, chicory, watercress, raw spinach and other salad greens

or a combination of greens may be used in place of lettuce.

Wilted Lettuce Salad

Use ½ gallon Hot Bacon Dressing (page 238) in place of French Dressing. Toss with lettuce just before serving.

Wilted Greens

Use ½ gallon Hot Bacon Dressing (page 238) in place of French Dressing on escarole, chicory or other greens. Toss with greens just before serving.

Chopped raw spinach is especially good served with Hot Bacon Dressing.

ORANGE, GRAPEFRUIT AND BANANA SALAD

Yield: Approx. 4 gallons.

Portion: 1/2 to 3/4 cup.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Orange sections	Pounds 20	Ounces	2 gallons	
Grapefruit sections, halved	10		1 gallon	
Bananas, sliced or diced	8	••••	1 gallon	
Celery, diced	1		1 quart	
Pimientos, diced (optional)		15		
Mayonnaise (page 237)	2		pint). 1 quart	

Combine orange and grapefruit sections. Drain. Peel and slice bananas. Combine with orange and grapefruit.

Add celery and pimiento. Mix thoroughly but lightly to avoid mashing bananas.

Add mayonnaise. Mix just before serving. Note.—This salad may be served on crisp lettuce leaf, or coarsely cut or shredded lettuce may be used as an ingredient.

MACARONI OR SPAGHETTI SALAD

Yield: Approx. 5 gallons.

Portion: 3/4 cup (approx. 6 ounces).

		100 P	ORTIONS PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Macaroni, cooked, cold	Pounds 9	Ounces 8	1 gallon
Celery, diced	8	****	2 gallons
Pimientos, chopped		$7\frac{1}{2}$	1 cup or ½ (15-oz.)
Onions, minced	••••	4	can. 3/4 cup
Lettuce, coarsely cut	2		1 gallon
Eggs, hard-cooked, diced	2	14	30 (½ gallon)
Salt		2	1/4 cup
Mayonnaise (page 237)	2	8	1½ quarts

Combine macaroni, celery, pimientos, onions, lettuce and eggs. Sprinkle with salt.

Add mayonnaise. Toss lightly until well

mixed.

NOTE.—3 pounds diced, cooked beef, veal or ham may be used in place of eggs.

PINEAPPLE CHEESE SALAD

Yield: Approx. 5 gallons.

100 PORTIONS INGREDIENTSPortions WEIGHTS AMOUNTS (approx.) Pounds Ounces Pineapple, drained, diced 20 4 2½ gallons 7½ gallons Lettuce, coarsely cut or 15 shredded. 1½ quarts Cheese, American cheddar, 1 8 coarsely grated. Mayonnaise (page 237) 3 1½ quarts

Combine pineapple, lettuce and cheese. Add mayonnaise and mix together lightly.

Variation

Pineapple Coconut Salad

Sprinkle 1 pound (13/4 quarts) grated coco-

nut over top of Pineapple Cheese Salad just before serving.

NOTE.—Dry, shredded coconut soaked in milk, to cover, 1 hour before using and then drained thoroughly, will give appearance and flavor of fresh coconut.

Portion: ½ to ¾ cup.

Yield: Approx. 5 gallons.

Portion: 3/4 cup (approx. 6 ounces).

		100 P		
Ingredients	Weights		AMOUNTS (approx.)	Portions
Potatoes, cooked, sliced	Pounds 20	Ounces 	3½ gallons	
Salt		6	3/4 cup	
Pepper		1/4	3/4 tablespoon	
Oil	••••	11	3/4 pint	
Vinegar		6	3/4 cup	
Celery, diced	4		1 gallon	
Onions, diced		10	1 pint	
Eggs, hard-cooked, chopped	3	4	36 (21/4 quarts)	
Mayonnaise (page 237)	6	••••	3/4 gallon	
Lettuce, coarsely cut	2		1 gallon	

Spread layer of potatoes in bottom of pan. Sprinkle with salt, pepper, oil and vinegar.

Arrange layers of potatoes and seasonings until all are used.

Let stand 1 hour.

Add celery, onion, lettuce, eggs and mayonnaise, just before serving. Mix together lightly.

POTATO SALAD

(Using dehydrated potatoes)

Portion: Approx. 4 ounces.

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Potatoes, Julienne style, de- hydrated. Water (for potatoes)	Pounds 5	Ounces 	1¾ gallons	
Onions, dehydrated	:	8	1½ pints	
Water (for onions)			13/4 quarts	
Vinegar			1½ pints	
Salt		3	6 tablespoons	
Pepper		1	3½ tablespoons	

Soak potatoes in water 45 to 60 minutes to reconstitute. Cover. Heat, slowly, to boiling temperature.

Let simmer 10 to 20 minutes or until tender. Drain thoroughly. Cool.

Stir onions into water and let soak 60 minutes to reconstitute.

Heat to boiling temperature. Let simmer 20 to 25 minutes or until tender. Drain well.

Cool. Add to potatoes.

Add vinegar, salt and pepper. Mix lightly. Sprinkle with paprika or garnish with sprigs of crisp parsley. Serve cold.

Note.—1. 1 quart Mayonnaise (page 237) may be used. Omit vinegar in the Potato Salad.

2. 20 eggs, hard-cooked, sliced, or cold scrambled eggs may be added.

PERFECTION SALAD

Yield: 3-gallon mixture.

Portion: 2½-inch square.

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Gelatin, lemon flavored	Pounds 3	Ounces 4		
Water, hot	••••		1 gallon	
Water, cold		••••	3½ quarts	
Celery, diced	3		¾ gallon	
Cabbage, chopped fine	3	••••	3/4 gallon	
Carrots, chopped fine	****	12	3/4 quart	
Peppers, green, chopped fine.	••••	12	3/4 quart	
Vinegar			1½ pints	
Salt			1 tablespoon	
Lettuce, coarsely cut	6		3 gallons	
Mayonnaise (page 237)	4		½ gallon	

Dissolve gelatin in hot water. Stir in cold water. Chill until slightly thickened.

Mix together celery, cabbage, carrots, green peppers, vinegar and salt.

Stir vegetable mixture into thickened gelatin. Place into pans. Chill until firm.

Cut into $2\frac{1}{2}$ -inch squares. Serve on lettuce with mayonnaise.

Yield: Approx. 61/4 gallons.

Portion: 3/4 to 1 cup.

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Bacon, sliced, diced	Pounds 8	Ounces	1 gallon	
Potatoes, uncooked, cubed	50		6½ gallons	
Onions, minced	1	5	1 quart	
Water			11/4 gallons	
Sugar	2	8	11/4 quarts	
Pepper	••••	2	7 tablespoons	
Mustard, dry	••••	51/2	1½ cùps	
Salt	·	6	3/4 cup	
Vinegar			1 quart	

Fry bacon until lightly browned.

Combine with potatoes, onions, water and sugar.

Stir in pepper, mustard and salt until well mixed. Cover.

Heat to boiling temperature. Cook 20 to 30 minutes, or until potatoes are almost done.

Stir in vinegar, being careful not to mash

potatoes. Cook 5 to 10 minutes, or until potatoes are tender but not mushy.

NOTE.—1. 12 ounces (1 quart) crisp parsley, minced, may be added just before serving.

- 2. $1\frac{1}{2}$ pints caraway seeds may be added, with seasonings, before cooking.
- 3. Hot potato salad may be served as a main dish with two hot vegetables.

SALMON SALAD

Yield: Approx. 5 gallons.

Portion: 3/4 cup (approx. 5 ounces).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Salmon	Pounds 20	Ounces	20 No. 1 tall cans (2 gallons).	
Celery, diced	7	••••		
Pickles, sweet, chopped	2		1½ quarts	
Lettuce, coarsely cut	2		1 gallon	
Salt		3	6 tablespoons	
Mustard, prepared	F	1	1/4 cup	
Mayonnaise (page 237)	4		½ gallon	

Drain salmon. Remove bones and skin. Flake into large pieces.

Combine salmon, celery, pickles and crisp lettuce. Sprinkle with salt.

Add mustard and mayonnaise. Toss lightly and mix well, being careful not to mash salmon. Garnish with sprigs of crisp parsley.

Note.—1. 1 No. 10 can peas (334 quarts) drained, may be used in place of celery.

2. Crab flakes, tuna fish, halibut, cod or any

firm white fish cooked may be used in place of salmon.

Variation

Salmon Salad Tropical

30 to 40 ripe bananas, sliced or diced, and 1 No. 10 can (31/4 quarts) pineapple, diced, may be used in place of 1 gallon salmon and 1/2 gallon celery.

Bananas are fully ripe when the yellow peel is flecked with brown.

SHRIMP AND CELERY SALAD

Yield: Approx. 5 gallons.

Portion: 34 cup (approx. 5 ounces).

		100 F	70	
Ingredients	WEI	Weights Amounts (approx.)		Portions
Shrimps, A. P., cooked	Pounds 20	Ounces	2½ gallons, E. P.	
Lemon juice			3/4 cup	
Celery, diced	6	••••	1½ gallons	
Salt		3	6 tablespoons	
Pepper			2 teaspoons	
Lettuce, quartered or coarsely	2		1 gallon	
Mayonnaise (page 237)	4		½ gallon	

Combine cleaned shrimp, lemon juice and celery. Sprinkle with salt and pepper.

Add mayonnaise. Toss lightly until mixed. Serve on or with crisp, coarsely cut lettuce.

Note.—6 No. 5 cans (12 pounds) of shrimps may be used in place of 20 pounds raw shrimps.

Variation

Shrimp and Macaroni Salad

6 pounds A.P. (3½ gallons, cooked) macaroni or spaghetti may be used in place of celery.

Yield: Approx. 4 gallons.

Portion: Approx. 1 cup.

		100 P	ORTIONS	
INGREDIENTS	WEIGHTS		Amounts (approx.)	Portions
Cabbage, shredded	Pounds 15	Ounces	33/4 gallons	
Onions, chopped	2	••••	1½ quarts	
Orange sections, diced	2	8	1 quart	
Mustard, dry	••••		3 tablespoons	
Salt	••••	1	2 tablespoons	
Milk, evaporated		****	1 cup	
Vinegar	••••	****	1 cup	
Mayonnaise (page 237)	2	•	1 quart	
Watercress	2	6	12 bunches	

Mix together cabbage, onion and oranges. Stir mustard, salt, milk and vinegar into mayonnaise.

Wash and select watercress carefully. Chop coarse.

Combine cabbage mixture, dressing and watercress.

Toss together lightly. Serve immediately. Note.—25 ripe bananas, sliced or diced may be added.

YELLOW TURNIP AND WATERCRESS SLAW

Yield: Approx. 5 gallons.

Portion: Approx. 1 cup.

		100]		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Cabbage, shredded	Pounds 12	Ounces	3 gallons	
Turnips, yellow, shredded	10	****	2½ gallons	
Mustard, dry	••••	***	3 tablespoons	
Salt	••••	1	2 tablespoons	
Milk, evaporated		****	1 cup	
Vinegar	· · · · ·		1 cup	
Mayonnaise (page 237)	2	****	1 quart	
Watercress	2	6	12 bunches	

Mix together cabbage and turnips.

Stir mustard, salt, milk and vinegar into mayonnaise. Blend thoroughly.

Wash and select watercress carefully. Chop coarse.

Combine cabbage mixture and dressing. Add watercress.

Toss together lightly. Serve immediately.

Note.—10 pounds (2½ gallons) carrots, shredded, may be used in place of turnips.

RAW VEGETABLE SALAD

Yield: 5 gallons.

Portion: 3/4 cup (approx. 3 ounces).

		100 F		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	PORTIONS
Cabbage, shredded	Pounds 4	Ounces	1 gallon	
Carrots, shredded	4		1 gallon	
Pepper, green, diced	1	8	1½ quarts	
Tomatoes, cubed	6	****	3/4 gallon	
Celery, sliced	3		3/4 gallon	
Salt		4	½ cup	
Endive, curly, coarsely cut	1	8	¾ gallon	
French Dressing (page 239)			1 quart	

Combine cabbage, carrots, green peppers, tomatoes and celery. Sprinkle with salt.

Add endive and dressing just before serving. Toss lightly until well mixed.

Note.—A combination of any raw vegetables may be used. Lettuce, spinach, watercress or any greens may be used in place of endive.

Variation

Chef's Salad

Add thinly cut strips of cheese and ham or

tongue and arrange in a simple design on top of a combination of salad greens and salad vegetables, such as carrot strips and wedges of tomato. Slices of hard-cooked eggs may also be included in the garnish. Serve with mayonnaise.

NOTE.—This is a good salad for utilizing left-over ham or tongue and serving it in an attractive manner.

Yield: Approx. 5 gallons.

Portion: 3/4 cup (approx. 5 ounces).

Ingredients		100 F	PORTIONS
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)
Apples, A. P.	Pounds 14	Ounces	
Celery, diced	8		2 gallons
Lettuce, coarsely cut	4		2 gallons
Salt		1	2 tablespoons
Mayonnaise (page 237)	2		1 quart

Wash apples. Do not peel. Cut into quarters. Remove core. Dice. Add celery and crisp lettuce. Sprinkle with salt.

Add mayonnaise. Toss lightly and serve immediately.

NOTE.—Apples, cut, discolor when allowed to stand. Prepare salad as near serving time as possible.

Variations

Apple, Celery and Carrot Salad

2 pounds (1/2 gallon) thinly sliced carrots

may be used in place of 2 pounds celery.

Apple, Celery and Raisin Salad

Add 1 pound (1½ pints) raisins to salad.

Banana Waldorf Salad

25 to 30 ripe bananas, sliced or diced, may be used in place of 4 pounds (1 gallon) celery, diced. Bananas are fully ripe when the yellow peel is flecked with brown.

PHILADELPHIA PEPPER RELISH

Yield: Approx. 3 gallons. Portion: 1/3 to 1/2 cup. 100 PORTIONS INGREDIENTSPortions WEIGHTS AMOUNTS (approx.) Pounds Ounces 8 2 gallons Cabbage, finely chopped 12 (3/4 gallon).... Peppers, green, finely 3 chopped. 12 (¾ gallon)..... Peppers, red, finely chopped... 3 3/4 gallon Celery, finely chopped 1 4 tablespoons Celery seed Mustard seed 1/4 1 tablespoon 2 tablespoons 1 Salt 2 1½ quarts Sugar, brown Vinegar (50 grain) 1 quart

Mix together cabbage, green peppers, red peppers and celery.

Mix together celery seed, mustard seed, salt and brown sugar. Stir into the vinegar.

Add vinegar mixture to chopped vegetables just before serving.

NOTE.—Serve with roast meat or fried fish.

CORN RELISH

Yield: Approx. 4 gallons.

Portion: Approx. 2/3 cup.

		100 H		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Corn, whole kernel, drained Peppers, green, diced	Pounds 13	Ounces 4	gallons).	
Pimiento, chopped	••••	12	1½ cups	
Celery, diced	1		1 quart	
Onion, minced	1	8	4½ cups	
French Dressing (page 239)			1½ quarts	

Mix together corn, green peppers, pimiento, celery and onion.

- · Add French Dressing. Mix thoroughly.
- Let stand in refrigerator for 6 hours until flavor is blended.

Note.—1. Serve with meats or fish or as

salad.

- 2. 4 pounds (24 bunches) watercress cut coarse may be added to Relish just before serving.
- 3. Fresh corn, cooked, cut from cob, may be used in place of canned corn.

DIXIE RELISH

Yield: Approx. 5 gallons.

Portion: ½ to ¾ cup.

		100 F	PORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Cabbage, chopped	Pounds 12	Ounces 	3 gallons	
Celery, diced	4	••••	1 gallon	
Peppers, green, chopped	3	****	³ / ₄ gallon	
Onions, chopped	1	••••	1½ pints	
Salt		4	½ cup	
"Boiled" Salad Dressing (page 238)	6		3/4 gallon	

Combine cabbage, celery, peppers, onions and salt. Add dressing and mix together lightly.

NOTE.—6 large dill pickles, chopped, add to flavor.

Yield: 5 gallons.

Portion: 2½-inch square.

		100 H		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Gelatin, unflavored	Pounds	Ounces 8	1½ cups	`
Water, cold		—	½ gallon	
Tomatoes	31	14	5 No. 10 cans (4 gal-	
Onions, chopped		5	lons).	
Salt		3	6 tablespoons	
Sugar		8	1 cup	
Bay leaves	••••	••••	3	
Celery stalks and leaves,	1	****	1 quart	
diced. Vinegar	••••	****	1½ pints	

Soak gelatin in cold water 10 minutes.

Combine tomatoes, onions, salt, sugar, bay leaves and celery.

Heat to boiling temperature. Cook 10 minutes. Remove from heat and strain. Reserve juice.

Stir gelatin into hot juice until completely

dissolved.

Add vinegar. Pour into pans to depth of $1\frac{1}{2}$ inches. Chill until firm.

Cut into 2½-inch squares.

Note.—Serve on lettuce with mayonnaise, using 3 pounds lettuce, separated, and $\frac{1}{2}$ gallon mayonnaise.

Yield: Approx. 1/2 gallon.

Portion: 1 tablespoon.

		100 F	PORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Eggs, whole	Pounds	Ounces 6	4
Salt		3/4.	1½ tablespoons
Sugar	•	1	2 tablespoons
Mustard, dry		1/4	1½ tablespoons
Salad oil	1	14	½ gallon
Vinegar (50 grain)		6	3/4 cup

Beat eggs 2 minutes.

Add salt, sugar and mustard. Beat 2 minutes.

Add oil in a fine stream beating constantly. Increase rate of adding oil as mayonnaise emulsion builds up. Add all oil in 10 to 15 minutes.

Add small amount of vinegar if necessary during addition of oil to keep emulsion from breaking. Add remaining vinegar after all oil has been added. Beat 1 more minute.

Note.—1. $1\frac{1}{2}$ ounces powdered egg and $4\frac{1}{2}$ ounces ($\frac{1}{2}$ cup) cold water may be used in place of 4 whole eggs. In using powdered egg re-

constituted with water, have mixing bowl small enough to obtain thorough agitation as oil is being added.

2. 50 grain vinegar is standard Navy issue vinegar containing 5% acetic acid. If higher grain vinegar is used, it must be diluted with water to 50 grain strength. For example:

Dilute 100 grain vinegar with equal volume or weight of water to produce 50 grain vinegar.

Dilute 250 grain vinegar by mixing 1 part vinegar by weight or volume with 4 parts water by weight or volume, to produce 50 grain vinegar.

SOUR CREAM DRESSING

Yield: Approx. ½ gallon.

		100 I	PORTIONS	Portions
Ingredients	WEI	GHTS	AMOUNTS (approx.)	
Milk, evaporated		Ounces 10	4 No. 1 tall $(14\frac{1}{2} \text{ oz.})$ cans $(1\frac{2}{3} \text{ quarts})$.	
Sugar Salt				
Vinegar	••••		1 quart	

Combine milk, sugar and salt.

Add vinegar, gradually, stirring briskly with a wire whip until well blended and sugar is dissolved.

NOTE.—1. Add ¼ teaspoon paprika, or dry mustard or ¼ teaspoon pepper, if desired.

2. Serve cold on slaws or on green salads.

Yield: Approx. 1 gallon.

		100 P	2 December 2	
Ingredients	Wei	GHTS	AMOUNTS (approx.)	Portions
Onions, chopped	Pounds 1	Ounces	1½ pints	
Bacon, diced	2	••••	1 quart	
Water		<u></u>	1½ quarts	
Vinegar	****		$1\frac{1}{2}$ quarts	
Sugar	1	4	11/4 pints	
Salt		1/2	1 tablespoon	
Pepper	8 8 4 9		1 teaspoon	
Flour	<u> </u>	6	1½ cups	

Fry together onions and bacon until bacon is crisp and onions are clear. Drain off fat, and reserve.

Combine water and vinegar. Heat to boiling temperature. Add sugar, salt and pepper.

Blend fat and flour to a smooth paste.

Stir into hot liquid. Heat to boiling temperature.

Cook about 10 minutes or until slightly thickened. Add onion and bacon.

Add to salad just before serving.

"BOILED" SALAD DRESSING

Yield: Approx. 11/2 gallons.

		100 F	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Milk, liquid	Pounds	Ounces 	1 gallon
Flour	****	8	1 pint
Sugar		12	1½ cups
Mustard, dry		11/2	63/4 tablespoons
Salt		2	½ cup
Eggs, slightly beaten	1	8	15 (3/4 quart)
Butter		4	½ cup
Vinegar			1 quart

Heat 3/4 gallon milk to boiling temperature. Do not boil.

Mix together flour, sugar, mustard and salt. Stir in remaining cold milk to make a smooth paste.

Add paste to hot milk, stirring constantly.

Heat to boiling temperature. Cook, stirring, until thickened.

Add slowly 1 quart dressing to eggs, stirring to prevent cooking of eggs.

Stir egg mixture into cooked dressing. Cook, stirring constantly, 5 to 10 minutes.

Remove from heat. Stir in butter. Cool slightly. Stir in vinegar.

Cool thoroughly before using.

Hold in refrigerator.

FRENCH DRESSING

Yield: Approx. 1/2 gallon.

		100 F	ORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Salt	Pounds	Ounces 1	2 tablespoons
Sugar		11/3	2 tablespoons
Mustard, dry			1½ tablespoons
Paprika	••••	••••	1½ tablespoons
Salad oil	2	8	1½ quarts
Vinegar	<u> </u>		2½ cups
Onion juice	••••		2 tablespoons

Mix together salt, sugar, mustard and paprika. Add oil, vinegar and onion juice.

Place in container. Cover tightly. Shake vigorously before serving.

NOTE.—1. Dressing may be made in mixer or whipped together with wire whip.

- 2. Lemon juice may be used in place of vinegar.
- 3. 1 individual clove of garlic may be added, if desired. Remove before using dressing.

Variations

Olive French Dressing

Add 1 pint olives, ripe or green, minced, to 1 gallon French Dressing.

Chiffonade Dressing

Add: 4 hard-cooked eggs, chopped

- 8 ounces (1 pint) green pepper, chopped
- 1 (15-ounce) can (1 pint) pimiento, chopped
- 1 pint catsup
- 1 tablespoon prepared mustard
- 1 teaspoon Worcestershire sauce

Curried French Dressing

Add 1 tablespoon curry powder to 1 gallon dressing.

THOUSAND ISLAND DRESSING

Yield: Approx. 1/2 gallon.

Towns		100 I	PORTIONS	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Chili sauce	Pounds	Ounces 	1/2 pint	
Mayonnaise (page 237)	4		½ gallon	
Peppers, green, chopped fine.	••••	4	1 cup	
Onion, minced		1	2 tablespoons	
Worcestershire sauce		••••	1/4 teaspoon	
Eggs, hard-cooked, chopped			3	
fine. Salt			1 teaspoon	
Pickles, sweet, chopped fine		3	½ cup	

Stir chili sauce into mayonnaise.

Add peppers, onions, Worcestershire sauce, eggs, salt and pickles.

Mix together thoroughly.

Variation

Russian Dressing

Omit hard-cooked eggs from Thousand Island Dressing.

Sandwiches

Sandwiches serve two purposes in the menu. They provide satisfying nourishment in convenient form in an emergency. They can be served without equipment and can be carried either in made-up form or as separate ingredients.

Sandwiches can be served, on occasion, as a main dish in the meal when served with hot vegetables, a salad and dessert.

Pointers for Making Good Sandwiches

Allow plenty of work space for making sandwiches. Prepare all the materials in advance and have the necessary tools ready and at hand before beginning to make the sandwiches.

Day-old soft bread is preferable.

Place butter in a warm place to soften it. Do not melt. Whip softened butter to a creamy consistency so that it spreads easily and economically. When a soft filling is used, the butter can be mixed with it, thus saving time and one step in the operation of making the sandwich.

Butter one or both slices of bread, spreading from the corners and edges toward the cen-

ter of the slice, so that the entire surface is covered. Butter prevents the sandwich filling from soaking into the bread.

Make sandwich fillings just before using. Hold them in a refrigerator if they must stand any length of time.

Wrap the sandwiches in wax paper. Place sandwiches in refrigerator until ready to use.

The addition of chopped celery or crisp, shredded lettuce or cabbage, to appropriate soft fillings, makes the sandwich more palatable and increases the food value.

Make Sandwich Filling Just Before Using

Whenever possible, sandwich fillings should not be prepared until just before making the sandwiches. The fillings made with meat, egg, and fish are highly perishable and should not be allowed to remain in warm room temperatures.

When circumstances make it necessary to prepare the fillings and sandwiches 1 to 2 hours before they are to be used, place them in the refrigerator immediately after they have been made, and keep them there until just before using them.

BUTTER AND BREAD FOR SANDWICHES

		100 F	PORTIONS	Departure
INGREDIENTS	Wei	GHTS	AMOUNTS (approx.)	Portions
Butter, softened	Pounds 2	Ounces	1 quart	
Milk, evaporated		$7\frac{1}{2}$	$\frac{1}{2}$ No. 1 tall $(14\frac{1}{2}$ -oz.) can (1 cup) .	
Bread	••••		200 slices	***************************************

Beat together butter and milk until well blended. Spread on bread slices.

NOTE.—1. Add butter to sandwich mixture instead of spreading separately.

2. The volume of butter will be increased

if creamed in an electric mixer.

3. 4 pounds ($\frac{1}{2}$ gallon) Mayonnaise (page 237) may be used in place of butter. Any of the following seasonings may be used with the Mayonnaise.

Variations

Added Seasoning

1 pound butter may be seasoned with any of the following ingredients:

Horse-radish1 tablespoon

AMERICAN CHEESE FILLING

Portion: Approx. 2 ounces.

		100 F		
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	Portions
Mustard, prepared	Pounds	Ounces 1	½ cup	
Chili sauce		8	½ pint	
Mayonnaise (page 237)	1		1 pint	
Cheese, American cheddar, ground.	6		51/4 quarts	

Mix together mustard, chili sauce and mayonnaise.

Add to cheese and stir until mixture is thoroughly blended and smooth.

Note.—1. Cheese warmed to room temperature will blend more quickly and thoroughly.

2. Spread slice of toast with cheese. Grill in broiler. Serve immediately.

CREAM CHEESE AND OLIVE FILLING

Portion: Approx. 2 ounces.

		100 F		
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	Portions
Cheese, cream, softened	Pounds 9	Ounces 		
Milk, evaporated	1	13	2 No. 1 tall (14 ½-oz.) cans (1½ pints).	
Olives, stuffed, chopped fine	3		13/4 quarts	

Mix together all ingredients and blend to a smooth paste.

Note.—Any of the following may be blended with cream cheese:

Celery, chopped.

Jelly, jam or preserves.

Nuts, chopped.

Peppers, green, chopped.

Pickle, chopped.

Pimiento, diced.

Raisins.

Watercress, minced.

Portion: Approx. 21/2 ounces.

		100 F	PORTIONS	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Boiled ham	Pounds 15–18	Ounces 		
Bologna	15–18	•		
Canadian bacon, cooked	15–18	••••		
Cervelat	15–18	••••		
Corned beef, cooked	15–18	****		
Liverwurst	15–18	****		
Luncheon Meat	15–18	••••		
Roast beef	15–18	••••		
Roast lamb	15–18			
Roast pork	15–18	••••		
Roast veal	15–18			
Salami	15–18	•••		
Spiced ham	15–18	••••		
OR Tongue, cooked	15–18			

Select 1 or more meats to total 15 to 18 pounds. Slice.

NOTE—1. Cole Slaw (page 223) or chopped raw vegetables, seasoned with salad dressing, may be spread on 1 slice of bread.

2. Slice the bread before removing meat from refrigerator. Meat should not remain in

warm room temperatures longer than necessary.

- 3. Canned meats may be used.
- 4. Cooked meats may be ground and mixed with chili sauce, prepared mustard, or sweet pickle relish and made into a filling.

PEANUT BUTTER FILLING

Portion: Approx. 2 ounces.

Tychobynyma		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Peanut butter, softened	Pounds 10	Ounces 	1 gallon	
Butter, softened	1	••••	1 pint	
Milk, evaporated	2	4	$2\frac{1}{2}$ No. 1 tall (14 $\frac{1}{2}$ oz.) cans (1 quart).	

Mix together peanut butter, butter and milk until smooth.

Variations

Peanut Butter and Cooked Bacon

To 8 pounds (31/4 quarts) peanut butter add 3 pounds (1 quart) chopped cooked bacon.

Peanut Butter and Horse-radish

To 9 pounds (3¾ quarts) peanut butter add 1 pound (1 pint) prepared horse-radish.

Peanut Butter and Chili Sauce

To 8 pounds ($3\frac{1}{4}$ quarts) peanut butter add $\frac{1}{2}$ gallon chili sauce.

Peanut Butter and Jam

To 5 pounds (½ gallon) peanut butter add 7 pounds jam, jelly or applebutter.

Peanut Butter and Ham

To 4 pounds (1\(^3\)/4 quarts) peanut butter add 4 pounds (2\(^3\)/4 quarts) chopped cooked ham and 2 pounds (1\(^4\)/4 quarts) pickle relish.

CORNED BEEF FILLING

Portion: Approx. 2 ounces.

		100 F	PORTIONS
INGREDIENTS	WEIGHTS		Amounts (approx.)
Corned beef, cooked, ground.	Pounds 6	Ounces	
Eggs, hard-cooked, chopped fine.	5		48
Pickles, sweet, chopped fine	1		1½ pints
Milk, evaporated	4	8	5 No. 1 tall (14½-oz.) cans (½ gallon).
Salt		1	2 tablespoons
Pepper		1/4.	3/4 tablespoon
Lemon juice			1 pint (8 lemons)

Combine all ingredients and mix thoroughly. Note.—1. Sweet pickle liquor may be used

in place of lemon juice.

2. Hard-cooked egg may be omitted.

HOT MEAT SANDWICH

Portion: Approx. 4 ounces meat, approx. 4 ounces gravy.

		100 F	D. T.	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Meat, cooked, sliced	Pounds 25	Ounces		
Bread, slices	****		200	
Gravy (page 212)	•		$31/_2$ gallons	

Make sandwiches.

Heat gravy to boiling temperature.

Place sandwich on serving plate or tray.

Ladle hot gravy on sandwich before serving.

Note.—The Hot Meat Sandwich may be used as a main dish. Serve in addition, 1 or 2 hot vegetables, other than potatoes, or 1 hot vegetable and 1 salad.

CHICKEN SALAD FILLING

Portion: $1\frac{1}{2}$ ounces (approx. 3 tablespoons).

		100 F	ORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Chicken, cooked, chopped	Pounds 8	Ounces 	1½ gallons	
Salt	••••	1/2	1 tablespoon	•••••
Celery, chopped fine	1	••••	1 quart	
Vinegar		••••	½ cup	
Mayonnaise (page 237)	1		1 pint	•

Mix together all ingredients. Blend thoroughly.

Note.—1. Prepare all the ingredients for making the sandwiches before removing the chicken from refrigerator. Chicken meat should not remain in warm room temperatures longer than necessary.

2. Place made sandwiches in refrigerator if they are to be held 1 or 2 hours before serving.

Variation

Chicken and Watercress Filling

Use 4 bunches watercress, chopped coarse, in place of 1 quart celery, chopped.

EGG SALAD FILLING

Portion: Approx. 2 ounces.

		100 F	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Eggs, hard-cooked, chopped fine.	Pounds 8	Ounces 	80
Celery; chopped fine	3		3/4 gallon
Mayonnaise (page 237)	3		1½ quarts
Salt		1	2 tablespoons
Celery salt		1	2 tablespoons
Pepper		1/2	13/4 tablespoons
Onions, chopped fine		2	6 tablespoons

Combine all ingredients and mix thoroughly. Note.—Egg salad fillings are highly perishable and should not be made until just before sandwiches are to be used. If necessary to hold fillings or sandwiches 1 to 2 hours before using them, hold in refrigerator and not in a warm room.

Variation

Egg Salad with Bacon

Use 6 pounds (21/4 quarts) chopped, cooked bacon in place of celery.

HAM SALAD FILLING

Portion: Approx. 2 ounces.

		100 F	Portions	
INGREDIENTS	WEIGHTS			AMOUNTS (approx.)
Ham, cooked, chopped fine	Pounds 6	Ounces 	1 gallon	
Celery, chopped fine	3		3/4 gallon	
Horse-radish		2	1/4 cup	
Mustard, dry		1	1/4 cup	
Mayonnaise (page 237)	4		½ gallon	

Combine all ingredients and mix thoroughly. Note.—1. 1½ quarts chopped sweet pickles may be used for half the celery.

- 2. Any cooked meat may be used.
- 3. Hold the ham in refrigerator until all the other ingredients are prepared. Ham is

highly perishable and should not remain in warm room temperature longer than necessary.

4. Place filling in refrigerator immediately after making, if necessary to hold it 1 to 2 hours before making or serving the sandwiches.

SALMON SALAD FILLING

Portion: Approx. 21/2 ounces.

		100 F	Doggood	
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	Portions
Salmon, flaked	Pounds 8	Ounces 	8 No. 1 tall (16-22.) cans (1 gallon). 3/4 gallon	
Onions, chopped fine		8	1½ cups	
Pickles, sweet, chopped fine		8	1½ cups	
Mayonnaise (page 237)	4		½ gallon	
Salt		1	2 tablespoons	

Combine all ingredients and mix thoroughly. Note.—If the filling must be held 1 to 2

hours before using, place it in refrigerator immediately after it is made.

VEGETABLE SALAD FILLING

Portion: Approx. 2 ounces.

Y		100 F	PORTIONS	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Cabbage, shredded	Pounds 2	Ounces 	½ gallon	
Carrots, shredded	1	8	1½ quarts	
Peppers, green, chopped fine.		12	1½ pints	
Celery, chopped fine	1	4	4½ cups	
Mayonnaise (page 237)	2		1 quart	
Salt		3/4.	1½ tablespoons	

Combine all ingredients and mix well. Chill thoroughly before using.

Note.— $\frac{1}{2}$ pound ($\frac{1}{2}$ cups) seedless raisins may be used in place of $\frac{1}{2}$ pound cabbage.

BAKED BEAN FILLING

Portion: Approx. 2 ounces.

Tyanyaya		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beans, baked	Pounds 12	Ounces 	2 gallons	
Milk, evaporated	1	13	2 No. 1 tall (14½-oz.) cans (1½ pints).	

Mash beans.

Stir in milk and mix thoroughly.

NOTE.—This filling may be used hot or cold.

Variation

Baked Beans with Bologna

To 9 pounds ($5\frac{1}{2}$ quarts) baked beans add 3 pounds bologna, chopped fine. Mix together. Stir in milk and mix thoroughly.

LETTUCE AND TOMATO SANDWICH

T		100 I		
Ingredients	Weights		Amounts (approx.)	PORTIONS
Lettuce	Pounds 4	Ounces	7 medium heads	
Mayonnaise (page 237)	4		½ gallon	
Tomatoes, sliced	15		60	

Wash and separate lettuce heads into leaves. Spread bread with mayonnaise.

Place tomato slices and lettuce on one slice of bread.

Cover with second slice of bread.

Variation

Lettuce, Tomato and Bacon Sandwich

Use 2 slices cooked bacon to each sandwich.

BOLOGNA AND CHEESE FILLING

Portion: Approx. 2 ounces.

		100 I	PORTIONS
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)
Bologna, ground	Pounds 4	Ounces	
Cheese, American cheddar, ground.	4	••••	3½ quarts
Milk, evaporated	2	12	3 No. 1 tall (14½-oz.) cans (1¼ quarts).
Pickles, sweet, chopped fine	1	••••	1½ pints
Mustard, dry	••••	1/2	21/4 tablespoons
Pepper	••••	••••	½ teaspoon
Salt		1/2	1 tablespoon

Combine all ingredients and mix thoroughly.

LIVER AND EGG FILLING

Portion: Approx. 2 ounces.

		100 F	PORTIONS	Democratic
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Liver, cooked, chopped fine	Pounds 8	Ounces 	1 gallon	
Eggs, hard-cooked, chopped	2		20	
fine. Mayonnaise (page 237)	4		½ gallon	
Onions, minced		5	1 cup	
Salt		1	2 tablespoons	
Pepper			2 teaspoons	

Combine all ingredients. Stir together until well mixed.

NOTE.—1 quart catsup may be used in place of 1 quart mayonnaise.

Soups

Soups serve as one of the best carriers for additional highly nutritive foods such as milk, meat, and vegetables.

Soups range in variety from clear broth to the heavier types which include the cream and bean soups and chowders. If the meal tends to be of a hearty nature, it should be preceded by one of the lighter soups such as the clear broths and their variations. A light meal can be made more attractive and satisfying with the addition of a cream soup or chowder.

The meat stock, which forms the basis for many soups, is an important item when foods in quantity are being prepared. It can be used as a base for sauces and gravies. It is advisable to keep fresh stock on hand at all times.

Bouillon cubes, powdered bouillon, or bouillon type products can be used in place of, or as part of the meat stock. They are convenient to handle and can be used to advantage when bones are not available for making stock.

Dehydrated soup mixtures, now available, are highly nutritious and tasty. Directions for preparing them should be carefully followed.

The addition of fresh or canned vegetables to a soup prepared from a dehydrated soup base, and the use of meat stock for reconstituting these soups, enhance the flavor and contribute to the nutritional value of the soup.

Liquid from canned vegetables, or water in which vegetables have been cooked, should be used in place of part of the water specified in the recipe.

SOUP-MAKING GUIDE

	SEASONINGS	GARNISHES	ACCOMPANIMENTS
Brown Stock: Barley All	lspice C	Cream Soups:	Carrot strips, raw
Beef Lamb Corn meal White Stock: Veal Chicken Flour Chicken Macaroni Fish Stock Tomato Stock Vegetable Stock Cream Sauce Milk Bar Bread crumbs Bar Bread crum	sil y leaves lery lery Salt ives oves rry ace veet Marjoram atmeg ion, raw ion salt rsley pper ppercorns	Bacon, crisp, small pieces Chives, chopped Cream, whipped Frankfurters, sliced thin Peppers, chopped Pimiento, chopped Stock Soups: Carrot strips Cheese, grated Chives, chopped Croutons Egg custard cubes Lemon slices Okra slices Rice cereal, crisp (freshly buttered)	Celery Crackers Croutons Nuts Olives Radishes Sandwiches Toast, Melba sticks

TEST CONTRACTOR		100 I	PORTIONS	Departure
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Bones, beef or veal	Pounds 22	Ounces		
Brisket, shank meat, boneless.	10			
Water, cold		••••	8 gallons	
Onions, chopped	1		1½ pints	
Celery, chopped	1		1 quart	
Carrots, chopped	1	8	4½ cups	
Salt		4	½ cup	
Pepper	••••	••••	1 teaspoon	
Bay leaves			5	1 1

Saw bones crosswise or lengthwise and remove the marrow. Brown the bones in oven.

Cut meat into 2-inch cubes. Brown in marrow fat.

Add bones, meat and remaining ingredients to water. Let simmer 5 to 6 hours. Strain and cool. When cool, place in refrigerator.

Note.—1. Use stock as base for soups and sauces.

- 2. Before using, carefully remove layer of hardened fat which helps seal the top.
- 3. Make Meat Stock without bones, if not available. Use only 10 pounds meat as specified.

MEAT STOCK

(Using powdered bouillon)

Yield: 6 gallons.

Portion: 1 cup (Approx. 8 ounces).

Ingredients		100 F	Donmove	
INGREDIENTS	WEIGHTS		Amounts (approx.)	Portions
Bouillon, powdered	Pounds	Ounces 12	1½ pints	· · · · · · · · · · · · · · · · · · ·
Water, boiling		24	6 gallons	kais aut s

Stir powdered bouillon into boiling water until completely dissolved. Heat to boiling temperature.

NOTE.—1. Serve plain or use as basic stock for other soups.

- 2. The flavor and palatability of soups made from dehydrated soup mixes is greatly improved when used with powdered bouillon.
- 3. Any bouillon type product may be used to make stock.

Portion: 1 cup (approx. 8 ounces).

	× ×	100 I		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Fowl (chicken) fully drawn	Pounds 30	Ounces		
Water			7½ gallons	
Carrots, chopped		10	1 pint	
Onions, diced		4	3/4 cup	
Celery, cubed	••••	4	1 cup	
Pepper			3/4 teaspoon	
Salt		3	6 tablespoons	

Scrub chicken, including the feet, thoroughly. Disjoint or leave whole.

Add water. Heat slowly to boiling temperature.

Add carrots, onions, celery, pepper, and salt. Let simmer 2 to 3 hours. Strain and cool.

Hold, uncovered, in refrigerator until needed. Note.—Before using, carefully remove layer of hardened fat which helps seal the top.

Portion: 1 cup (approx. 8 ounces).

	100 PORTIONS			
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	Portions
Beef, shin	Pounds 12	Ounces		
Butter or other fat	1	••••	1 pint	
Veal bones	12			
Salt	****	4	½ cup	
Water, cold	••••		8 gallons	
Turnips, diced	1	···· .	1½ pints	
Celery, diced	2		½ gallon	
Onions, diced	1	8	4½ cups	
Summer savory, dried		1/2	2 tablespoons	
Cloves		1/2	2 tablespoons	
Thyme		1/2	2 tablespoons	
Cinnamon	••••	1/2	2 tablespoons	
Eggs, whole		8	5 (1 cup)	
Water, cold			1 pint	

Cut meat into 1-inch cubes. Fry in ½ the fat, until lightly browned.

Add meat, bones and salt to water. Heat to boiling temperature. Let simmer about 45 minutes to 1 hour.

Fry together turnips, celery and onions in remaining fat. Add vegetables, savory, cloves, thyme and cinnamon to stock. Let simmer 3 hours.

Cool and skim off top layer of fat. Strain.

Add eggs to 1 pint water and beat. Stir into soup. Heat and let simmer about 20 minutes. Strain if desired.

NOTE.—1. Celery tops when available add extra flavor to soup.

2. Make Meat Stock without bones, if not available. Use only 12 pounds meat as specified.

Ingredients		100 I	PORTIONS
INGREDIENTS	Weights		Amounts (approx.)
Ham bones	Pounds 25	Ounces 	
Onions, chopped	1	•	1½ pints
Celery, chopped	1		1 quart
Carrots, chopped	1	8	4½ cups
Salt		4	½ cup
Pepper			3/4 teaspoon
Bay leaves			5
Water, cold			8 gallons

Brown the bones in oven.

Add bones, onions, celery, carrots, salt, pepper and bay leaves to water.

Heat to boiling temperature. Let simmer 6 hours. Strain and cool.

Hold, uncovered, in refrigerator until needed. Note.—1. Use stock as base for soups, gravies and sauces. Fat from the stock may be used for cooking.

2. Before using, carefully remove layer of hardened fat which helps seal the top.

SCOTCH BROTH

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

	1 - 1	100 H	PORTIONS
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)
Lamb bones and meat	Pounds 18	Ounces 	
Water			7½ gallons
Salt	****	3	6 tablespoons
Pepper			1 teaspoon
Barley, pearl	1	8	1½ pints
Carrots, shredded	3		1 gallon
Turnips, shredded	3		1 gallon
Onions, sliced		12	1½ pints
Celery, diced	2	8	2½ quarts

Wipe bones with damp cloth. Cover with water. Heat slowly to boiling temperature. Let simmer 2 hours. Skim. Remove meat and bones.

Add all other ingredients to stock. Let simmer 1 hour.

Cut meat from bones and chop. Add to soup.

NOTE.—1. The addition of $1\frac{1}{2}$ teaspoons of curry powder makes a pleasing variation.

2. ¾ cup chopped parsley may also be added. Parsley should be added just before serving.

TOMATO STOCK OR BROTH

Yield. Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 F	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Beef Stock (page 251) or water.	Pounds	Ounces 	4½ gallons
Celery, chopped	2		½ gallon
Onions, chopped	2		1½ quarts
Tomatoes	19	2	3 No. 10 cans (2½
Salt		6	gallons). 3/4 cup
Pepper	••••	1/4	1 tablespoon
Sugar		8	½ pint
Butter or other fat, melted	2		1 quart
Flour		12	1½ pints

Heat stock or water to boiling temperature.

Add celery, onions, tomatoes, salt, pepper and sugar. Let simmer 20 minutes or until

vegetables are tender.

Blend together fat and flour. Stir into hot mixture and cook until thickened. Strain.

BEEF BROTH WITH BARLEY, NOODLES, SPAGHETTI, OR RICE

Yield. Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

Ingredients		100 H	Paneraus	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Celery, diced	Pounds 1	Ounces 	1 quart	
Onions, chopped	1		1½ pints	
Barley, noodles, spaghetti, or rice uncooked.	1	8		
Beef Stock (page 251)		••••	6 gallons	

Add celery, onions and barley to stock. Heat to boiling temperature.

Let simmer 20 to 30 minutes or until celery is tender.

CREOLE SOUP

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 F	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Beef Stock (page 251), well seasoned.	Pounds	Ounces 	5 gallons
Onions, chopped	1	8	4½ cups
Peppers, green, chopped		6	1½ cups
Tomatoes	12	12	2 No. 10 cans $(6\frac{1}{2})$ quarts).
Salt		2	1/4 cup
Pepper		-	1 teaspoon
Spaghetti, broken into small pieces.	1	8	

Heat stock to boiling temperature. Add onions, green peppers, tomatoes, salt and pepper. Reheat.

Add spaghetti. Let simmer 1 hour. Stir occasionally to prevent spaghetti from sticking to bottom.

Portion: 1 cup (approx. 8 ounces).

Tuennama	100 P		PORTIONS
Ingredients	WEI	GHTS	AMOUNTS (approx.)
Onions, chopped	Pounds 1	Ounces 8	4½ cups
Carrots, chopped	2		1½ quarts
Butter or chicken fat		4	½ cup
Chicken Stock (page 252)	••••		5½ gallons
Rice, uncooked, washed	1	4	11/4 pints
Tomatoes	6	6	1 No. 10 can (31/4)
Okra	6	3	quarts). 1 No. 10 can (31/4)
Salt	4	2	quarts). 1/4 cup
Pepper		1/4	3/4 tablespoon

Fry onions and carrots in fat until lightly browned.

Heat stock to boiling temperature.

Add onions, carrots, rice, tomatoes, okra, salt, and pepper to stock.

Let simmer 1½ hours.

CHICKEN SOUP WITH NOODLES OR RICE

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

Lygoppyyy		100 P			
Ingredients	WEIGHTS		Amounts (approx.)	Portions	
Chicken Stock (page 252), well seasoned.	Pounds	Ounces 	6½ to 7 gallons		
Noodles, fineOR	•	10	1½ quarts		
Rice, uncooked, washed	1	8	1½ pints		

Heat strained chicken stock to boiling temperature. Add noodles or rice. Let simmer 1 hour.

Stir frequently to prevent noodles or rice from sticking to bottom.

Portion: 1 cup (approx. 8 ounces).

Ingredients		100 H	Departure	
INGREDIENTS	WEIGHTS		AMOUNTS (approx)	Portions
Onions, chopped	Pounds	Ounces 12	2½ cups	
Carrots, diced	1		1½ pints	
Celery, diced	1		1 quart	
Peppers, green, chopped	1	4	11/4 quarts	
Apples, sliced	1	8	1½ quarts	
Butter or other fat	1		1 pint	
Flour		12	1½ pints	
Chicken Stock (page 252)		••••	53/4 gallons	
Tomatoes	6	6		
Curry powder		1	quarts). $1\frac{1}{2}$ tablespoons	
Cloves, ground			1 teaspoon	
Salt		1	2 tablespoons	
Pepper			2 teaspoons	1

Fry together onions, carrots, celery, peppers and apples until lightly browned. Remove from fat.

Blend together fat and flour. Stir into

chicken stock.

Add fried vegetables, apples, tomatoes and seasonings.

Heat and let simmer 1 hour.

Portion: 1 cup (approx. 8 ounces).

	100 PORTIONS			Portions
Ingredients	WEIGHTS		Amounts (approx.)	FORTIONS
Carrots, chopped	Pounds 2	Ounces 8	½ gallon	
Celery, chopped	1	8	1½ quarts	
Onions, chopped	1		1½ pints	
Cabbage, chopped	1	4	11/4, quarts	
Tomatoes	12	12		
Beef Stock (page 251)		<u></u>	quarts). 5 gallons	
Salt		4	½ cup	
Pepper			1 teaspoon	
Potatoes, cooked, cubed	3		½ gallon	
Peas	6	10	1 No. 10 can (31/4 quarts).	

Add carrots, celery, onions, cabbage and tomatoes to stock.

Heat to boiling temperature. Let simmer about 30 minutes or until carrots are tender.

Before serving, add salt, pepper, potatoes and peas. Reheat.

NOTE.—Parsley may be used as garnish, if desired.

TOMATO, BARLEY, MACARONI, NOODLE, OR RICE SOUP

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 H	77	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Tomato Stock (page 255)	Pounds	Ounces 	6 gallons	
Barley, macaroni, noodles or rice, uncooked.	1	8		

Heat stock to boiling temperature. Stir in barley, macaroni, noodles or rice. Heat to boiling temperature. Let simmer about 20 to 30 minutes or until cereal is tender.

Portion: 1 cup (approx. 8 ounces).

Typoppy		100 I	PORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beans, white, dried	Pounds	Ounces	1 gallon	
Water, cold			To cover	
Water, boiling		••••	4 gallons	
Salt pork, cubed	••••	8	½ pint	
Carrots, chopped		4	3/4 cup	
Onions, chopped	••••	12	2½ cups	
Meat Stock (page 251)	<u> </u>		23/4 gallons	
Potatoes, diced	5	8	3½ quarts	
Bacon, diced	1	8	½ pint	
Tomatoes	6	6	1 No. 10 can (31/4	
Salt	••••	2	quarts).	
Pepper	F 1	1/4	3/4 tablespoon	

Pick over, wash and soak beans 2 to 3 hours. Do not drain.

Combine with boiling water, salt pork, carrots and half the onions. Heat to boiling temperature. Cook about 3 hours or until beans are tender.

Add stock and potatoes. Cook about 30 minutes or until potatoes are tender.

Fry together bacon and remaining onions about 3 minutes, or until lightly browned.

Add tomatoes, salt and pepper.

Combine all ingredients. Reheat.

BEAN SOUP

(Using dehydrated bean soup and powdered bouillon)

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

Inchestante		100 P	ORTIONS PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Bouillon, powdered	Pounds	Ounces 12	1½ pints
Water, boiling		9.5	6 gallons
Bean soup, dehydrated	6		1 gallon

Stir powdered bouillon into boiling water until completely dissolved.

Add bean soup, gradually, to stock, stirring constantly.

Heat to boiling temperature.

Variation

Pea Soup

Use 6 pounds (1 gallon) dehydrated pea soup in place of dehydrated bean soup.

Note.—Any bouillon type product may be used to make stock.

BEAN SOUP

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 H	PORTIONS	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Beans, white, dried	Pounds 5	Ounces 8	31/4 quarts	
Water, cold			To cover	
Ham Stock (page 254)			5 gallons	
Onions, chopped	1		1½ pints	
Ham bones			8	
Cloves, whole			1 teaspoon	
Flour		8	1 pint	
Water, cold			1 quart	
Pepper			2 teaspoons	
Salt, if needed		4	1/2 cup	

Pick over, wash and soak beans, in water to cover, 2 to 3 hours.

Add ham stock, onions, bones and cloves. Heat to boiling temperature. Let simmer 2 to 3 hours. Remove bones.

Blend together flour and water to a smooth paste. Stir into soup. Add pepper, and salt if needed. Reheat to boiling temperature.

Note.—1. Ham bones may be omitted.

2. Flour may be omitted. If omitted, the

soup must be stirred while serving, as beans will settle to bottom of the container upon standing.

Variation

Bean Soup with Tomatoes

Follow recipe for Bean Soup and add 1 No. 10 can (31/4 quarts) tomatoes to ham stock before simmering.

Portion: 1 cup (approx. 8 ounces).

		100		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Lentils	Pounds 8	Ounces 8	1½ gallons	
Water, cold	•		To cover	
Ham Stock (page 254)			6 gallons	
Onions, diced	1	8	4½ cups	
Celery, cubed	1	8	1½ quarts	
Carrots, diced	1	8	4½ cups	
Sugar		. 3/4.	1½ tablespoons	
Salt		2	½ cup	
Pepper			1½ teaspoons	
Mustard		••••	1½ teaspoons	
Nutmeg, ground		****	$1\frac{1}{2}$ teaspoons	
Worcestershire sauce	****		1½ teaspoons	
Fat, melted		10	1½ cups	
Flour		12	1½ pints	

Pick over and wash lentils. Cover with cold water. Soak 6 to 8 hours. Drain.

Add ham stock, onions, celery, carrots, sugar, salt, pepper, mustard and nutmeg. Heat to boiling temperature.

Let simmer 2 hours or until lentils are very

soft. Press through sieve. Add Worcestershire sauce.

Blend together fat and flour to a smooth paste. Stir into lentil puree.

Let simmer about 20 minutes, stirring frequently.

Portion: 1 cup (approx. 8 ounces).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Peas, yellow split	Pounds 5	Ounces 8	¾ gallon	
Ham Stock (page 254)			6 gallons	
Onions, chopped	6	, I	4½ quarts	
Ham bones	·		8	
Salt, if needed		4	½ cup	
Pepper			2 teaspoons	
Cloves, whole			1 teaspoon	
Flour		8	1 pint	
Water, cold			1 quart	

Pick over, wash and soak peas 3 to 4 hours in ham stock. Do *not* drain.

Add onions, ham bones, salt, if needed, pepper and cloves. Heat to boiling temperature. Let simmer about 2 hours or until peas are

tender.

Remove bones.

Blend together flour and water to a smooth paste. Stir into soup. Heat to boiling temperature.

Portion: 1 cup (approx. 8 ounces).

Ingredients		100 F		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Meat Stock (page 251)	Pounds	Ounces 	6 gallons	
Onions, thinly sliced	20			
Fat	2		1 quart	
Flour	••••	8	13/4 cups	
Worcestershire sauce	••••		½ cup	
Salt		4	½ cup	
Pepper, black			2 teaspoons	
Toast slices, rye or white			100	
Cheese, grated			2½ cups	

Heat stock to boiling temperature.

Fry onions in fat until lightly browned. Stir in flour. Add to stock. Add Worcestershire

sauce, salt and pepper. Simmer 10 minutes. Place one slice of toast in each soup bowl. Sprinkle with cheese. Fill with hot soup.

ONION SOUP

(Using dehydrated onions)

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 H		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Onions, dehydrated	Pounds 1	Ounces 2	13/4 quarts	
Water (for onions)	8		1 gallon	
Fat	2		1 quart	
Flour	2		1% quarts	
Bouillon cubes			70	
Water, hot (for stock)			5 gallons	
Salt		3	6 tablespoons	

Stir onions into water and let soak 60 minutes. Cover.

Heat to boiling temperature. Let simmer 15 to 20 minutes or until tender. Drain and reserve liquid.

Heat fat to frying temperature. Add reconstituted onions and cook until onions are lightly browned. Stir frequently.

Add flour gradually to fried onions and stir until flour is well distributed.

Dissolve bouillon cubes in water. Add reserved liquid.

Add part of hot stock to thin out the onion-flour paste. Combine thinned paste with remainder of the stock.

Add salt and let simmer 60 minutes.

CHICKEN RICE SOUP

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 I		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Onions, chopped	Pounds 2	Ounces 12	½ gallon	
Celery, diced	2	•	½ gallon	
Rice, uncooked, washed	1	8	1½ pints	
Chicken Stock (page 252)			7 gallons	······
Chicken fat, melted	1	8	1½ pints	
Flour		12	1½ pints	
Salt	••••	4	½ cup	
Pepper		1/4	3/4 tablespoon	
Chicken, cooked, diced	2	8	½ gallon	

Add onions, celery and rice to stock.

Heat to boiling temperature. Let simmer 20 to 30 minutes or until rice is cooked.

Blend together fat and flour. Stir into soup. Add salt, pepper and chicken. Cook 15 minutes or until thickened.

Portion: 1 cup (approx. 8 ounces).

		100 F	FETT, LET	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Chicken Stock (page 252), well seasoned. Chicken fat or butter, melted.	Pounds	Ounces 	3 gallons	
Flour		12	1½ pints	
Milk, liquid, hot			3 gallons	

Heat chicken stock to boiling temperature.
Blend together fat and flour. Stir into stock.
Let simmer 20 minutes, stirring frequently.
Add milk 10 minutes before serving.

NOTE.— $4\frac{1}{2}$ ounces ($\frac{3}{4}$ pint) of finely chopped parsley or chives may be added just before serving.

VEGETABLE CREAM SOUPS

(Basic Recipe for Cream Soups)

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Milk, liquid	Pounds	Ounces 	4 gallons	
Butter or other fat	1	8	1½ pints	
Onions, chopped		4	3/4 cup	
Flour		12	1½ pints	
Salt		2	½ cup	
Pepper			1 teaspoon	
Vegetables, cooked			2 gallons	

Heat milk to boiling temperature. Do not boil.

Melt fat, preferably part butter. Add onions. Cook about 10 minutes or until clear and tender.

Blend flour with fat. Stir into milk. Add onions.

Continue cooking about 20 minutes, stirring frequently until slightly thickened.

Add salt, pepper and vegetables, diced or pureed. Reheat before serving.

Note.—One or several kinds of vegetables may be used.

Portion: 1 cup (approx. 8 ounces).

		100 H		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Asparagus cuts, canned	Pounds 26	Ounces 6	4 No. 10 cans (31/4 gallons).	
Beef Stock (page 251) or water.			1½ gallons	
Onions, chopped		8	1½ cups	
Butter or other fat	1		1 pint	
Flour	1		1 quart	
Salt		2	1/4 cup	
Pepper			1/2 teaspoon	
Nutmeg			½ teaspoon	
Milk, liquid, hot			11/4 gallons	

Combine asparagus, including liquid from can, and stock or water. Heat to boiling temperature. Press through sieve, if desired.

Cook onions in fat until tender. Stir in flour, salt, pepper and nutmeg.

Add to hot milk, stirring until thoroughly mixed. Let simmer until thickened.

Combine asparagus and milk mixture just before serving.

CREAM OF CELERY SOUP

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 P		
Ingredients	WEI	IGHTS	AMOUNTS (approx.)	Portions
Celery, finely diced	Pounds 12	Ounces	3 gallons	
Beef Stock (page 251) or			1½ gallons	
water, boiling. Milk, liquid, hot			4 gallons	
Onions, chopped		12	2½ cups	
Fat	1	8	1½ pints	
Flour	1		1 quart	
Salt		3	6 tablespoons	
Pepper		- 1	3/4 teaspoon	

Cook celery in boiling stock or water about 35 minutes or until tender. Add milk.

Fry onions in fat until clear and stir in the

flour. Stir into celery mixture.

Add salt and pepper. Let simmer 20 minutes.

CREAM OF CORN SOUP

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Water	Pounds	Ounces 	1 gallon	
Corn, cream style	12	8		
Celery, chopped		12	gallons). $1\frac{1}{2}$ pints	
Onions, chopped	2	•	1½ quarts	
Butter or other fat, melted	1		1 pint	
Flour		8	1 pint	
Salt	•	4	½ cup	·····
Pepper			1 teaspoon	
Milk, liquid, hot			3½ gallons	

Heat water to boiling temperature. Add corn, celery and onions. Let simmer about 20 minutes.

Blend together fat and flour. Stir into boil-

ing mixture and cook until slightly thickened, stirring frequently. Add pepper.

Add salt and stir the milk into soup mixture just before serving.

CREAM OF CARROT, PEA, AND CELERY SOUP

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 P	D	
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Celery, leaves and stalks, chopped.	Pounds 10	Ounces		
Onions, chopped	3 1			
Water, boiling				
Peas	6	10	1 No. 10 can (31/4 quarts).	
Butter or other fat, melted	2	••••		
Flour		12	1½ pints	
Salt		4	½ cup	
Pepper			1 teaspoon	
Milk, liquid, hot			3½ gallons	

Add celery, carrots and onions to boiling water. Cook about 30 minutes or until tender. Add peas.

Blend together fat and flour. Stir into soup

mixture and cook until slightly thickened, stirring frequently.

Add salt and pepper. Stir in the milk just before serving.

Portion: 1 cup (approx. 8 ounces).

Twonenama		100 P		
INGREDIENTS	WE	IGHTS	AMOUNTS (approx.)	Portions
Beef Stock (page 251) or water.	Pounds	Ounces 	2 gallons	
Peas, fresh, E.P., or frozen	16		2½ gallons	
Milk, liquid	••••	****	2½ gallons	
Onions, chopped	4	10	1 pint	
Butter or other fat	1		1 pint	
Flour	1		1 quart	
Salt		21/2	5 tablespoons	
Pepper			½ teaspoon	

Heat stock or water to boiling temperature. Add peas. Cook 15 to 20 minutes or until tender.

Press through sieve. Add milk to pureed peas. Let simmer 10 minutes.

Fry onions in fat until lightly browned. Stir

in flour. Add to peas and milk. Stir well.

Add salt and pepper. Cook until slightly thickened.

NOTE.—3 No. 10 cans $(2\frac{1}{2}$ gallons) of peas, with liquid, may be used in place of $2\frac{1}{2}$ gallons fresh or frozen peas.

CREAM OF POTATO SOUP WITH BACON

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 F		
Ingredients	Weights		AMOUNTS (approx.)	Portions
Potatoes, diced	Pounds 20	Ounces 	3 gallons	
Water	1		3 gallons	
Bacon, diced small	1	8	1½ pints	
Onions, chopped	1	••••	1½ pints	
Flour		6	1½ cups	
Celery salt		2	1/4 cup	
Pepper			1 teaspoon	
Salt		4	½ cup	
Milk, liquid, hot	••••		3 gallons	

Cook potatoes in water about 20 to 30 minutes or until tender. Drain and reserve cooking water.

Press potatoes through sieve and add to cooking water.

Fry bacon until crisp. Remove from fat.

Fry onions in bacon fat about 3 minutes until

lightly browned. Add flour and blend.

Stir into potato puree. Cook until thickened, stirring occasionally.

Add bacon, celery salt and pepper to soup mixture.

Add salt and stir the milk into soup mixture just before serving.

CREAM OF GREEN SPLIT PEA SOUP

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 P	PORTIONS	
Ingredients	WEI	GHTS	AMOUNTS (approx.)	
Peas, green split	Pounds 6	Ounces 	31/4 quarts	
Water		****	1½ gallons	
Celery leaves	****	1 =	1/4 cup	
Onions, chopped		8	1½ cups	
Butter or other fat, melted		8	1/2 pint	
Flour		4	½ pint	
Salt		3	6 tablespoons	
Pepper	·		2 teaspoons	•••
Milk, liquid, hot			5½ gallons	

Sort and wash peas thoroughly. Soak in cold water 6 to 8 hours. Do not drain.

Add celery leaves and onions. Heat to boiling temperature. Cook about 1 hour or until peas are tender.

Press celery, onions and peas through sieve.

Return to water in which they were cooked.

Blend together fat and flour. Stir into pureed mixture and cook until slightly thickened, stirring frequently.

Add salt and pepper. Stir in the milk just before serving.

CREAM OF TOMATO SOUP

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 P		
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	Portions
Tomatoes	Pounds 25	Ounces 8	4 No. 10 cans (31/4 gallons).	
Celery tops	••••	8	1 pint	
Onions, chopped		8	3/4 pint	
Mixed spices		- ••••	2 teaspoons	
Salt	****	4	½ cup	
Sugar		8	1 cup	
Flour	••••	8	1 pint	
Water, cold	••••	••••	1 quart	
Butter or other fat		8	½ pint	
Soda		1	2 tablespoons	
Milk, liquid, hot			3 gallons	

Combine tomatoes, celery tops, onions, mixed spices, salt and sugar.

Heat to boiling temperature. Let simmer 10 minutes. Strain.

Blend flour and water to a smooth paste. Stir into strained mixture and let simmer until

slightly thickened.

Add butter and soda and stir well.

Add hot milk, stirring constantly. Heat to simmering temperature. Do not boil. Serve immediately.

Portion: 1 cup (approx. 8 ounces).

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Water	Pounds	Ounces	½ gallon	
Onions, chopped	1		1½ pints	
Peppers, green, chopped		8	1 pint	
Corn, cream style	18	12	15 No. 2 cans (2½ gallons).	
Milk, liquid				
Salt		4	½ cup	
Pepper			1 teaspoon	

Heat water to boiling temperature. Add onions and peppers. Cook about 30 minutes or until tender.

Combine corn, milk, salt and pepper. Heat

thoroughly. Add to onions, green peppers and water. Let simmer 40 minutes.

NOTE.—Chopped parsley or 18 hard-cooked eggs, sliced may be used as garnish.

CORN AND TOMATO CHOWDER

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 cunces).

Ingredients		100 P		
	WEIG	GHTS	AMOUNTS (approx.)	Portions
Milk, liquid	Pounds	Ounces	2 gallons	
Sugar	••••	11/2	3 tablespoons	
Pepper	••••	••••	1 teaspoon	
Corn, cream style	18	12	15 No. 2 cans $(2\frac{1}{2})$ gallons).	
Onions, diced		12		
Tomatoes	19	2		
Salt		4	quarts).	

Combine milk, sugar, pepper, corn and onions. Heat to boiling temperature. Let simmer 45 minutes.

Ileat tomatoes to boiling temperature. Add salt. Combine with corn mixture just before serving.

CLAM CHOWDER—BOSTON STYLE

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

Tarappayana		100 F	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Celery, diced	Pounds 2	Ounces 8	2½ quarts	
Onions, chopped	2	8	1/2 gallon	
Potatoes, cubed	3	8	1/2 gallon	
Salt		2	1/4 cùp	
Water, boiling			1½ gallons	
Clams, cooked and chopped	8		2 gallons	
Clam liquor, strained			3/4 gallon	
Milk, liquid	****	••••	2½ gallons	
Salt		11/2	3 tablespoons	
Pepper	·		1 teaspoon	
Fat, melted	1		1 pint	
Flour	1		1 quart	

Combine celery, onions and potatoes. Add salt and vegetables to water. Cook about 20 minutes or until tender.

Add clams, clam liquor, milk, salt and pepper. Heat slowly to boiling temperature.

Blend fat and flour to a smooth paste. Stir into hot soup.

Cook about 15 minutes or until soup is smooth and slightly thickened.

MANHATTAN CLAM CHOWDER

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

	100 PORTIONS			
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Fish, fresh (cod or haddock)	Pounds . 3	Ounces 		
Water, cold			3 gallons	
Bacon trimmings or salt pork, cubed.		12		
Onions, sliced		12	1 pint	
Celery, diced		12	1½ pints	
Potatoes, cubed	5	••••	3/4 gallon	
Tomatoes	12	12	2 No. 10 cans $(1\frac{1}{2})$ gallons).	
Clams (large) chopped and liquor.				
Worcestershire sauce		4	½ cup	
Paprika	••••		1 teaspoon	
Pepper		1/2	13/4 tablespoons	
Parsley, chopped		3	½, pint	
Thyme			1 teaspoon	

Clean fish. Place fish in water. Heat to boiling temperature and let simmer 15 minutes.

Remove and flake. Return flaked fish to stock.

Fry bacon or salt pork until crisp. Add onions. Fry until lightly browned.

Add pork, onions, celery, potatoes, fish and stock. Let simmer 15 minutes.

Add tomatoes, clams, liquor and seasonings. Reheat.

NOTE.—1. Stir the chowder, while serving, to prevent clams and vegetables from settling to bottom.

- 2. Settling may also be prevented by blending together 6 ounces ($\frac{3}{4}$ cup) butter or bacon fat and 5 ounces ($\frac{1}{2}$ pint) flour and stirring it into soup mixture with the clams.
- 3. 1 No. 10 can (3/4 gallon) tomato juice may be used in place of 1 No. 10 can tomatoes.

Portion: 1 cup (approx. 8 ounces).

Typenson		100		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Salt pork, diced	Pounds 1	Ounces 8	1 quart	
Onions, sliced	2		½ gallon	
Potatoes, sliced or diced	6	8	1 gallon	
Water, boiling			21/4 gallons	
Haddock, boned and skinned.	15			
Salt		4	½ cup	
Pepper			1½ teaspoons	
Milk, liquid			2 gallons	

Fry salt pork until crisp. Remove fried pork from the fat. Drain.

Fry onions in pork fat until lightly browned. Add onions and potatoes to water. Heat to boiling temperature. Cook 10 minutes.

Add fish and continue cooking until fish can be easily separated into large pieces.

Stir in salt, pepper and milk. Let simmer 15 minutes.

Add crisp pork cubes just before serving.

Note.—Any other non-fatty fish similar to haddock such as cod, hake and pollock may be used.

OYSTER STEW

Yield: Approx. 6 gallons.

Portion: 1 cup (approx. 8 ounces).

		100 H	I - I THE TO T	
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Oysters, with liquor	Pounds	Ounees	11/4 gallons	
Butter, melted	1	4	21/4 cups	
Salt		4	½ cup	
Pepper	••••		3/4 teaspoon	
Worcestershire sauce	****	•	2 teaspoons	
Milk, liquid	16		43/4 gallons	

Heat oysters in oyster liquor and melted butter until edges curl. Add salt, pepper and Worcestershire sauce.

Heat milk to boiling temperature. Do not

boil.

Add milk to oysters about 10 minutes before serving.

Portion: 1 cup (approx. 8 ounces).

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Onions, chopped	Pounds	Ounces 4	3/4 cup	
Celery, chopped	1	8	1½ quarts	
Water	••••		½ gallon	
Oysters, with liquor			1 gallon	
Butter, melted	2	8	11/4 quarts	
Flour	1	4	11/4 quarts	
Pepper		1/4	3/4 tablespoon	
Salt		3	6 tablespoons	
Milk, liquid			5 gallons	

Cook onions and celery in water about 20 minutes or until tender.

Heat oysters, in oyster liquor, until edges begin to curl. Remove oysters and chop fine.

Blend together butter and flour, using part of oyster liquor for making paste. Stir into oyster liquor until slightly thickened.

Add onions, celery, pepper and oysters.

Heat milk to boiling temperature. Do not boil.

Add salt to oyster mixture and combine with milk. Serve immediately.

CROUTONS

Cut day-old bread in ½-inch thick slices. Cut into ½-inch strips, then into cubes.

Arrange layer of cubes on bottom of bun pan.

Bake in slow oven (300°F.) until golden brown. Turn occasionally to brown evenly.

NOTE—Serve as a garnish for soups or ingredient in stewed tomatoes.

Vegetables

Vegetables enhance a meal in many ways. They insure variety and interest, add color and flavor and increase the nutritive value of the meal. It is important that they be included daily in the Navy menu.

Their contribution to a meal, however, is greatly affected by the manner of handling and cooking.

Vegetables are purchased by the Navy in the following forms: canned, dehydrated, quickfrozen and fresh.

CANNED VEGETABLES

Canned vegetables have been cooked in the container at the cannery and need only to be reheated to boiling temperature just before serving. This relatively short period of preparation should be given careful consideration when planning the meals in order to avoid overcooking the vegetables. Overcooking not only reduces the food value but detracts from the appearance and flavor.

Retain the liquid from canned vegetables for use in soups, sauces and gravies.

DEHYDRATED VEGETABLES

Most dehydrated vegetables need to be refreshened or reconstituted by soaking in cold water before cooking. The water in which they have been soaked should be used for cooking in order to retain the soluble vitamins.

Reconstituted vegetables should be cooked in as little water as possible until just tender, in the same manner as fresh vegetables.

In the process of dehydration some of the delicate flavors and odors characteristic of the fresh vegetable may have been reduced or lost. Therefore, it may be necessary to use additional seasonings.

Individual recipes with full directions for reconstituting and cooking the dehydrated vegetables now issued for Navy use are included in this section. These directions should be carefully followed. See page 19 for more information on dehydrated foods.

QUICK-FROZEN VEGETABLES

Quick-frozen vegetables have the appearance and flavor of fresh vegetables. These vegetables are ready for cooking as they have been thoroughly cleaned and trimmed.

Quick-frozen vegetables take less time to prepare than fresh vegetables.

Follow carefully the directions for defrosting and cooking, given in a Table in this section (page 284) or as specified on the individual container, and see page 22 for additional information on quick-frozen foods.

FRESH VEGETABLES

Preparation for Cooking

Select Vegetables Uniform in Size: This allows all the vegetables to be cooked to the same degree of doneness in the same length of time.

Peel Vegetables Carefully in Order to Prevent Waste: Much of the nutritive value of the vegetable lies close to the peel.

Wash Thoroughly: Use a vegetable brush to clean celery, carrots, beets and potatoes.

Soak asparagus, broccoli, cauliflower, brussels sprouts and French artichokes in salted, cold water (1 tablespoon per 1 quart) about 30 to 60 minutes to eliminate worms and insects.

Wash spinach, kale, beet tops and similar greens in cold water several times to remove dirt and sand particles. Lift the greens from the water rather than "run the water off" the greens.

Keep in Cool Place until Time to Cook: Vegetables should be kept in a cool storage room until ready to prepare for cooking.

If vegetables are wilted they can be crisped and freshened by placing them in ice cold water or between layers of crushed ice. When freshened they should be covered with a clean damp cloth and placed in a cool storage room until ready to use.

Long Soaking and Warm Temperatures Cause Loss of Vitamins: Valuable vitamins and minerals are lost when vegetables are soaked too long or when allowed to remain in warm temperatures for several hours. Therefore, the length of time intervening between preparation and cooking should be short.

Cooking: Cook a small amount at one time. Reduce cooking time to a minimum. Overcooked vegetables are not as attractive, palatable or nutritious as those cooked for the proper length of time.

Use as little water as possible. Follow recipe directions for each individual recipe. Have water salted and boiling when adding vegetables.

Cook Vegetable with the Peel on When Possible: This is particularly desirable for potatoes.

Serve the Vegetable as Soon as it is Done: Long standing on a steam table causes loss of flavor and vitamins.

Retain Vegetable Cooking Water: Use cooking water in soups, sauces and gravies in place of all or part of water.

Add melted butter or sauce to vegetables just before serving.

Conserve Texture, Flavor and Appearance: Use vegetables which are in good condition.

Cook a small amount at one time,

Cook until just tender.

Serve immediately after cooking.

Taste before serving and add salt or extra seasoning if necessary. Avoid over-seasoning.

Consult and follow directions given in timetables and recipes if perfect results are to be obtained.

The Fresh Vegetable Guide (page 280) indicates the amounts of the common fresh vegetables required for 100 portions.

The percentage-waste figures for each vegetable are average based on vegetables in good condition. If vegetables have become wilted due to long transportation, poor handling and storage, the waste is greater.

Weights of vegetables and types of pack will vary with the season of the year, the quality of the vegetables, and the section of the country from which they are shipped. All vegetables should always be purchased by the pound.

Weights of portions are for cooked vegetables. Weights of portions of baked vegetables served whole, such as potatoes, will depend upon the size and uniformity of the individual units.

FRESH VEGETABLE GUIDE

Percentage Waste, Portion, Yield and Weight (approx.)

No. LBS. PER 100 PORTIONS AS PURCHASED (A. P.)	820 820 830 830 830 830 830 830 830 830 830 83
EDIBLE PORTIONS PER LB. (A. P.)	214 wawwwwaw 2
EDIBLE PORTIONS PER LB. (E. P.)	844444444 : roo44408 4444444 8134814814818181 \$1 ros
Weight 1 Portion (E. P.)	Ounces 41½ 31½ 31½ 41½ 31½ 4 5-6 5-6 5-6 4-41½ 4-5 5-6 4-41½ 4-5 4-41½ 5-6 5-6 4-41½ 5-6 5-6 4-41½ 5-6 5-6 4-41½ 5-6 5-6 5-6 6-7 6-7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
WASTE IN PREPARATION	Percent
Weight Edible Portion (E. P.)	Pounds 18 28.8 18 37.5 21.15 23.1 56.25 37 38 41.40 47 41.40 43 38 43 43 43 43.5
Net Weight As Purchased (A. P.)	Pounds 24 32 45 45 50 45 50 72–92 50 60 60 60 50 40 100 18 40 50 50 50 50 50 50 50 50 50 50 50 50 50
CONTAINER	crate hamper hamper basket or sack crate crate or sack crate or sack crate or sack crate crate crate crate crate crate crate crate sack basket or sack hamper crate sack basket crate crate sack basket crate crate sack basket basket crate basket crate basket basket basket basket basket crate or sack basket basket basket basket
VEGETABLE	Asparagus Beans, green or wax Beans, lima Beets Broccoli Brussels sprouts Cabbage, new Cabbage, old Carrots Cauliflower Celery Corn Eggplant Lettuce Onions, dry Parsnips Peas Peppers, green Potatoes, white Rutabagas Spinach Squash, summer Squash, summer Squash, sumter Squash, winter Swiss chard Tomatoes Turnips

WEIGHTS AND YIELDS OF CANNED VEGETABLES

PRODUCT—STYLE	SIZE OF CAN	NET WEIGHT PER CAN	WEIGHT OF PORTION OUNCES	Average No. Portions Per Can	APPROX. No. Cans for 100 Portions
Asparagus, spears or stalks	No. 21/2 sq.	1 lb. 3 oz 1 lb. 12 oz 6 lbs. 10 oz	$3\frac{1}{2}-4$	6 9 36	16 11 3
Beans, snap green and wax	No. 2½	1 lb. 3 oz 1 lb. 12 oz 6 lbs. 5 oz		4 7 25	25 14 4
Beets	No. 2½	1 lb. 4 oz 1 lb. 12 oz 6 lbs. 8 oz	4 4 4	5 7 26	20 14 4
Carrots		1 lb. 4 oz 6 lbs. 8 oz		5 26	20
Corn	No. 2 No. 10	1 lb. 4 oz 6 lbs. 10 oz	$\frac{4}{3-31/2}$	5 23	20 4
Hominy	No. 2½ No. 10	1 lb. 13 oz 6 lbs. 9 oz	4 4	7 26	14 4
Peas, early or sweet	No. 2 No. 10	1 lb. 4 oz 6 lbs. 9 oz	4 4	5 26	20 4
Sauerkraut	No. 2½ No. 10	1 lb. 11 oz 6 lbs. 3 oz	4-5 4-5	5 20	20 5
Spinach	No. 2½ No. 10	1 lb. 11 oz 6 lbs. 2 oz	4–5 4	5 24	20 4
Squash	No. 2½ No. 10	1 lb. 13 oz 6 lbs. 10 oz	4 4	7 26	14 4
Tomatoes	No. 2 No. 2½ No. 10	1 lb. 3 oz 1 lb. 12 oz 6 lbs. 6 oz	4-5 4 4	5 6 25	20 16 4
Tomato juice		1 pt. 2 fl. oz 3 qts.		3 18	33 5½
Tomato puree, heavy	No. 2 No. 10	6 lbs. 9 oz	4 4	5 26	20 4

TIME-TABLE FOR COOKING FRESH VEGETABLES

	I	N BOILING WATER	In Steamer	In Oven
VEGETABLE	MINUTES (ACTUAL BOILING)	AMOUNT (BOILING WATER)	MINUTES	MINUTES
Asparagus (bunched stalks)		Covered		••••
Tips Stalks	5–10 15–25	(except tips)	12–15 20–25	
Beans, green		Covered	25–35	
Beans, lima	20–30	Covered	20-25	****
Beet greens, young	6–12	Only that which clings to leaves.		****
Beets, new	35–60	Covered	40-60	60-90
Beets, old	60–120	Covered	60-150	90–120
Broccoli	15–25	Covered	20-25	****
Brussels sprouts	12–20	Covered	15–25	
Cabbage, green (shredded)	10–12	1/4 the volume of cab- bage.	8–15	
Cabbage, wedges	10–15	1/4 the volume of cabbage.	15–20	
Carrots, new	20–30	Covered	15–20	30-45
Carrots, old	25–40	Covered	30-40	45–60
Cauliflower (broken up)	10–20	Covered	15–18	20-30
Celery		Covered	10–15	
Corn	8–15	Covered	12–15	
Kale	20–30	Only that which clings to leaves.	30	****
Onions, whole	20–25	Covered	18–20	40–50
Parsnips	25–35	Covered	30-40	
Peas	15–30	Covered	15–25	
Potatoes, sweet	20–35	Covered	25–40	35–60
Potatoes, white	25–45	Covered	25–35	60–120
Rutabagas, cubed	30–40	Covered	35–45	
Spinach	6–12	Only that which clings to leaves.	6–10	
Squash, Hubbard	35–45	Covered	20–30	45–90
Squash, summer	20–25	Small amount	15–20	30-40
Swiss chard	15–25	Only that which clings to leaves.	15–20	••••
Tomatoes	. 15–20	None	15–20	20–30
Turnips, white, cubed	25–30	Covered	20–25	

VEGETABLE SUBSTITUTION CHART

Groups Classified According to Nutritive Values

CLASS OF FOODS

SUGGESTIONS FOR COOKING AND SERVING

Group I—Potatoes:

Potatoes, Irish

Au Gratin, Boiled (with or without skins), Baked, Cakes, Creamed, Fried,
French Fried, Hashed Browned, Lyonnaise, Mashed, O'Brien, Parsley,
Roast Brown, Salad, Scalloped

Potatoes, sweetBaked, Boiled, Candied, Mashed, Scalloped

Group II-Legumes, Dried:

Beans, kidney Beans, lima	Baked, Baked, Baked,	Boiled,	Salad Creamed, S	Soup,	with Bacon,	Ham
Beans, Navy	Baked, Baked,	Boiled,	Soup	•		

Group III—Grain Products:

Hominy, grits	Baked, Boiled, Creamed	
Hominy, lye	Boiled, Creamed	
	Baked, Boiled, Salads, Scalloped; with Cheese, Tomatoes, Mea	t
Noodles	Baked, Boiled, Scalloped; with Cheese, Tomatoes, Meat	
Rice, white	Baked, Boiled, Curried, Fried, Spanish	
Spaghetti	Baked, Boiled, Italian; with Cheese, Tomatoes, Meat	

Group IV-Leafy, Green and Yellow Vegetables:

Asparagus	Baked, Buttered, Creamed, Salad, Soup
Beans, string	Boiled, Buttered, Lyonnaise, Salad, Spanish
Beet Greens	
	Au Gratin, Boiled, Buttered, Creamed, Salads, Soup
Brussels Sprouts	
	Boiled, Buttered, Creamed, Fried, Slaw
Carrots	Baked, Boiled, Buttered, Candied, Creamed, Fried, Raw, Soup
Chard	
Collards	
Kale	
Lettuce	
	Baked, Buttered, Creamed, Succotash
Mustard Greens	
	Boiled, Buttered, Creamed, Salads, Soup
Peppers, green	
	Boiled, Buttered, Creamed, Salads, Soup
Squash	
Turnip Greens	
	Baked, Salads, Sliced, Scalloped, Soup, Stewed, Stuffed

Group V-Other Vegetables:

Beets	Boiled, Buttered, Harvard, Salads
Cauliflower	Boiled, Buttered, Creamed, Salads
Celery	Braised, Buttered, Creamed, Salads, Soups
Corn	Cob, Creamed, Buttered, Fritters, Pudding, Relish, Scalloped, Soup
Cucumbers	
Eggplant	Baked, Fried, Scalloped, Spanish
Onions	Baked, Creamed, Fried, Glazed, Savory, Salads, Sliced, Soups, Stewed
Parsnips	Baked, Buttered, Fried
Radishes	Garnish, Salads
Turnips, roots	Baked, Boiled, Creamed, Diced, Fried, Mashed
Sauerkraut	Baked, Boiled, Fried

The substitution of one vegetable for another within one group does not seriously affect the nutritional value of the menu.

Nutritionally, the foods in Groups I and II may be satisfactorily substituted for the foods in Group III but not vice versa.

Group IV foods may be substituted for Group V foods but not vice versa.

Groups I and II are generally nutritionally superior to Group III, and Group IV superior to V.

DIRECTIONS FOR COOKING QUICK-FROZEN VEGETABLES

(100 Portions)

		BOILING SALTED WATER	COOKING TIME	PORTION
VEGETABLE	Pounds	GALLONS	MINUTES (approx.)	Ounces (approx.)
Asparagus cuts	20	2	6 to 9	3½ to 4
Asparagus spears	20	2	6 to 9	4 to 5 stalks
Broccoli	17½	To cover	5 to 7	3 to 3½
Brussels sprouts	20	To cover	3 to 5	3½ to 4
Cauliflower	171/2	To cover	3 to 5	3 to 3½
Corn	20	1	5 to 6	3½ to 4
Beans, green	20	2	8 to 13	3½ to 4
Beans, lima	20	2	10 to 13	3½ to 4
Peas	20	2	4 to 6	3½ to 4
Spinach	171/2	2	4 to 6	3½ to 4
Beans, wax	20	2	8 to 13	3½ to 4

Break solid block of frozen vegetables, when not loose or individually frozen, into 4 to 5 pieces before removing from the carton, to hasten defrosting in the cooking water.

Remove from the carton. Drop into boiling water. Reheat to boiling temperature.

Count cooking time only from the time the water returns to boiling temperature after the addition of vegetable.

Stir occasionally and separate the vegetable while thawing in the water.

Cook vegetable the required length of time as specified on Time-Table or until tender. Drain thoroughly.

Season with butter, salt and pepper. Serve immediately.

Note.—1. For storage in excess of 2 weeks, store frozen vegetables at 10° F. or lower. When held for 2 days to 2 weeks, vegetables may be stored at 15° F. to 20° F. Store at 30° F. for period overnight or not to exceed 2 days. Frozen vegetables will keep as long as solidly frozen. If thawed, the vegetables must be used promptly. They cannot be refrozen.

- 2. The actual cooking time will vary as it depends upon the type of cooking vessel, the product and the length of time the vegetable must be held after cooking.
- 3. Avoid overcooking vegetables as this injures the appearance and flavor and reduces the food value. Long standing, after cooking, also affects the appearance, flavor, and food value.
- 4. Save water from drained vegetable for soups, gravies, or sauces.

Portion: 4 to 5 ounces.

		100 F			
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions	
Asparagus, A.P.	Pounds 38	Ounces			
Salt		2	½ cup		
Water			To cover		
Butter, melted	1		1 pint		

Cut off tough part of asparagus stalks. Reserve for soups.

Wash asparagus thoroughly. Soak in cold water about 20 minutes. Drain.

Add salt to water. Heat to boiling temperature.

Cut asparagus into 1½-inch lengths. Keep tips and stalks separate.

Cook stalks in boiling water about 15 minutes. Add tips.

Cook about 5 minutes or until tender. Drain. Add melted butter.

Note.—1. 3 No. 10 cans $(2\frac{1}{2}$ gallons) of

spears or stalks, or 3 No. 10 cans of cuts may be used in place of 38 pounds fresh asparagus.

2. Stalks may be left whole and cooked in long baking pans or tied in bunches and placed upright in a deep kettle with water not quite covering tips.

Variation

Asparagus Hollandaise

Serve asparagus on buttered toast with Mock Hollandaise Sauce (page 214) or Cheese Sauce (page 210).

BUTTERED GREEN BEANS

Portion: 4 to $4\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

		100 F			
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions	
Salt	Pounds	Ounces 3	6 tablespoons		
Water, boiling	****		To cover		
Beans, green, A.P.	25	****			
Butter, melted	1		1 pint		

Add salt to water. Heat to boiling temperature.

Wash beans thoroughly. Break off stem ends. Cut or break into desired lengths.

Cook in boiling water about 30 minutes or until tender. Drain. Add butter.

NOTE.—4 No. 10 cans (3½ gallons) green beans may be used in place of 25 pounds fresh beans.

Variations

Creamed Green Beans

Combine cooked green beans with 1½ gallons Medium Cream Sauce (page 208).

Green Beans, Southern Style

Cook fresh green beans with 2 pounds salt pork, bacon rind or ham hocks. Season to taste.

Serve with salt pork, ham from ham hocks or with Cornbread (page 370).

NEW YORK BAKED BEANS

Portion: 5 to 6 ounces (approx. 3/4 cup).

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beans, white, dried	Pounds 12	Ounces 	1¾ gallons	
Water, cold			To cover	
Water, boiling			3 to 4 gallons	
Onions, peeled, quartered	****	12	1½ pints	
Molasses	1	6	1 pint	
Sugar, brown	1		1½ pints	
Mustard, dry			1 tablespoon	
Paprika			2 teaspoons	
Salt		5	10 tablespoons	
Catsup	3	8		
Vinegar			quarts). 1/4 cup	
Salt pork, sliced	4			

Pick over and wash beans thoroughly. Soak in cold water about 6 hours.

Do not drain. Add boiling water to cover.

Add onions. Heat to boiling temperature. Let simmer about 1 hour until beans are tender but not mushy.

Add molasses, sugar, mustard, paprika, salt,

catsup and vinegar.

Arrange alternate layers of pork and beans in greased baking pan, bottom layer of pork and top layer of beans.

Bake in slow oven (300° F.) 4 to 5 hours, adding liquid as needed.

BOSTON BAKED BEANS

Portion: 5 to 6 ounces (approx. 3/4 cup).

		100 P	Dopprova	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beans, white, dried	Pounds 12	Ounces 	13/4 gallons	
Water, cold	••••		To cover	
Water, boiling		<u> </u>	3 to 4 gallons	
Salt		5	10 tablespoons	
Mustard, dry		1	4½ tablespoons	
Salt pork, bacon, or ham fat, cubed.	4			
Molasses	2	12	1 quart	

Pick over and wash beans thoroughly. Soak in cold water about 6 hours.

Do not drain. Add boiling water to cover. Simmer about 1 hour until beans are tender, but not mushy. Drain off excess liquid. Reserve.

Add salt, mustard, salt pork and molasses. Place in baking pans.

Bake in slow oven (300° F.) 4 to 5 hours, adding liquid from the boiled beans as needed.

SAVORY GREEN BEANS

Portion: 4 to $4\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

		100 P	PORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	ORTIONS
Beans, green	Pounds 21	Ounces 4	4 No. 10 cans (3½gallons).	
Onions, chopped	2	•	$1\frac{1}{2}$ quarts	9
Bacon fat	****	12	3/4 pint	
Sugar		4	½ cup	
Cloves		1/4	1 tablespoon	
Salt		2	1/4 cup	
Pepper			1 teaspoon	••••••
Tomatoes	6	6	1 No. 10 can (31/4 quarts).	

Heat beans to boiling temperature. Drain. Fry onions in bacon fat until lightly browned. Add sugar, cloves, salt, pepper and tomatoes.

Heat to boiling temperature.

Combine beans and tomato mixture just before serving.

BOILED WHITE, KIDNEY, OR LIMA BEANS, I

Portion: 5 ounces (approx. 2/3 cup).

		100 F	PORTIONS	-
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beans, white, kidney or lima,	Pounds 10	Ounces 	1½ gallons	
Water, cold			To cover	
Water, boiling			2 gallons	
Bacon or salt pork, diced	1	4	2½ cups	
Onions, chopped	1	4	1 quart	
Tomatoes	6	6	1 No. 10 can (3½ quarts).	
Sugar	•	2	1/4 cup	
Mustard, dry		12	1 tablespoon	
Salt		31/2	7 tablespoons	
Pepper			1 teaspoon	

Pick over and wash beans thoroughly. Soak in cold water about 6 hours.

Do not drain. Add boiling water to cover. Heat to boiling temperature.

Let simmer about 1 hour until tender but not mushy.

Fry together bacon and onions until lightly

browned. Add tomatoes, sugar, mustard, salt and pepper.

Combine tomato mixture with beans. Cook 20 to 30 minutes.

NOTE—1 pint corn sirup may be used in place of sugar.

BOILED WHITE, KIDNEY, OR LIMA BEANS, II

Portion: 5 ounces (approx. 2/3 cup).

		100 P	PORTIONS	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	OKTIONS
Beans, white	Pounds 12	Ounces	1¾ gallons	
Water, cold	****	****	To cover	
Meat Stock (page 251) or water, hot.			3 gallons	
Salt pork or bacon, cubed	2			
Salt	•	31/2	7 tablespoons	
Pepper			2 teaspoons	

Pick over and wash beans thoroughly. Soak in cold water about 6 hours. Do not drain.

Add hot meat stock or water to cover. Add salt pork. Heat to boiling temperature.

Let simmer about 30 minutes or until beans

are partially tender.

Add salt and pepper. Continue cooking until beans are tender but not mushy.

Note.—Ham bones may be used in place of salt pork.

KIDNEY BEANS AND CORN

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Corn, whole kernel, drained Bacon	Pounds 19	Ounces 14	3 No. 10 cans (2½ gallons).	
Beans, kidney, cooked	6		1 gallon	
Chili sauce		8	1/2 pint	
Salt		3	6 tablespoons	
Pepper			1 teaspoon	

Heat corn to boiling temperature. Drain. Fry bacon until crisp. Chop medium fine. Combine corn, bacon, kidney beans, chili sauce, salt and pepper.

Heat to boiling temperature.

Note.— $2\frac{1}{2}$ gallons cooked fresh corn cut from cob, may be used in place of canned corn.

LIMA BEANS, CREOLE

Portion: 4 to 5 ounces (approx. 3 cup).

Tarana		100 F	PORTIONS	Portions
Ingredients	WEI	GHTS	Amounts (approx.)	I ORTIONS
Beans, lima, dried	Pounds 10	Ounces	1½ gallons	
Water, cold		••••	To cover	
Water, boiling	••••	0.00	2 gallons	
Onions, quartered		8	3/4 pint	
Bacon, diced	2	***	1 quart	
Tomatoes	6	6	1 No. 10 can	
Chili sauce	1	•	(3¼ quarts). 1 pint	
Salt	****	31/2	7 tablespoons	
Sugar		4	½ cup	
Pepper	****	****	1 teaspoon	
Meat Stock (page 251)	••••		½ gallon	

Pick over and wash beans thoroughly. Soak in cold water about 6 hours.

Do not drain. Add boiling water to cover. Add onions.

Heat to boiling temperature. Let simmer about 1 hour until beans are tender but not mushy.

Fry bacon. Add bacon, tomatoes, chili sauce, salt, sugar and pepper to stock.

Heat to boiling temperature.

Combine all ingredients and pour into greased baking pans.

Bake in moderate oven $(350^{\circ}F.)$ ½ to 1 hour.

SPANISH BEANS

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beans, kidney, dried	Pounds 10	Ounces 	1½ gallons	
Water, cold		••••	To cover	
Water, boiling	<u> </u>		2 gallons	
Onions, chopped	1	8	1½ quarts	
Peppers, green, chopped	1		1 quart	
Paprika	••••		1½ teaspoons	
Pepper	••••		1 teaspoon	
Salt	••••	3	6 tablespoons	
Tomato puree	6	9	1 No. 10 can (31/4)	
Meat Stock (page 251)			quarts). $1\frac{1}{2}$ pints	
Salt pork, diced	1	8		

Pick over and wash beans thoroughly. Soak in cold water about 6 hours.

Do not drain. Add boiling water to cover.

Let simmer about 1 hour until tender, but not mushy.

Combine all ingredients and pour into greased baking pans.

Bake in moderate oven (350°F.) $1\frac{1}{2}$ to 2 hours.

Portion: 4 to $4\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

Transport		100 H		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beets, A.P.	Pounds 33	Ounces 		
Water			To cover	
Butter, melted	1	••••	1 pint	
Salt		2	1/4 cup	
Sugar		2	1/4 cup	
Pepper			1½ teaspoons	

Wash beets thoroughly. Trim stems 2 to 3 inches above beets. Retain roots.

Heat water to boiling temperature. Cook beets in boiling water 35 to 60 minutes or until tender. Drain.

Cover beets with cold water. Peel. Dice or slice.

Add butter, salt, sugar and pepper. Reheat. Note.—4 No. 10 cans (31/4 gallons) of beets may be used in place of 33 pounds of fresh beets.

Variation

Buttered Beets and Greens

Cook 20 pounds young beet greens 6 to 12 minutes. Drain.

Combine with 4 No. 10 cans (3½ gallons) beets, quartered or diced.

Add 1 pound (1 pint) butter, 2 ounces (1/4 cup) salt and 11/2 teaspoons pepper. Reheat.

BUTTERED BEETS

(Using dehydrated beets)

Portion: Approx. 3 ounces ($\frac{1}{2}$ to $\frac{2}{3}$ cup).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Beets, dehydrated	Pounds 3	Ounces 8	1 gallon	
Water			3 gallons	
Salt		2	1/4 cup	
Pepper		1/2	13/4 tablespoons	
Butter, melted	1		1 pint	

Soak beets in water 60 minutes. Cover Heat, slowly, to boiling temperature.

Let simmer 30 minutes or until tender. Drain. Add salt, pepper and butter.

Note.—1. Prolonged soaking may cause souring or spoilage.

2. 1 pound dehydrated beets is approximately equivalent to 12 pounds beets, A.P., or

to 8 pounds canned beets plus liquid in which they are packed.

- 3. Sliced, cubed, or Julienne style dehydrated beets may be used.
- 4. Dehydrated beets are preferable when prepared as Harvard Beets or Sweet Sour Beets.

Variation

Sweet Sour Beets

Soak beets and cook as for Buttered Beets. Drain.

Combine 1 quart vinegar, 1 pound (1 pint) sugar, 3 ounces (6 tablespoons) salt and 1 ounce ($3\frac{1}{2}$ tablespoons) pepper.

Heat to boiling temperature. Add to beets. Reheat.

HARVARD BEETS

Portion: 4 to $4\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

		100 F	PORTIONS	
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Beets, A.P.	Pounds 33	Ounces		
Water		••••	To cover	
Cloves	•	1/3		
Bay leaves			2	
Water			½ gallon	
Sugar		12	3/4 pint	
Cornstarch	*	5	1/2 pint	
Salt		11/2	3 tablespoons	
Pepper	••••		1 teaspoon	
Butter, melted		8	1/2 pint	
Vinegar			3/4 pint	

Wash beets thoroughly. Trim stems 2 to 3 inches above beets. Retain roots.

Heat water to boiling temperature. Add beets. Cook about 35 to 60 minutes or until beets are tender. Drain.

Cover beets with cold water. Peel. Dice or slice.

Add cloves and bay leaves to ½ gallon water. Heat to boiling temperature. Cook 1 minute. Remove cloves and bay leaves.

Mix together sugar, cornstarch, salt and pepper. Stir into hot water. Cook until thick-

ened, stirring constantly.

Stir butter and vinegar into sauce. Pour over beets. Reheat.

NOTE.—1. Leave stems and roots of beets on during cooking to prevent juices from cooking out.

- 2. 4 No. 10 cans (31/4 gallons) of beets may be used in place of 33 pounds of fresh beets. Use the liquor for heating beets and making sauce.
 - 3. Cook fresh beets in steamer, if possible.

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 F	PORTIONS
Ingredients	WEIGHTS		Amounts (approx.)
Beets, A. P.	Pounds 33	Ounces	
Water			To cover
Cloves, whole		1/4	1½ tablespoons
Water	•	****	1 gallon
Cinnamon, ground			2 teaspoons
Salt		2	1/4 cup
Pepper		****	1 teaspoon
Sugar, brown	2		1½ quarts
Sugar	1	••••	1 pint
Vinegar			½ gallon
Butter	1		1 pint

Wash beets thoroughly. Trim stems 2 to 3 inches above beets. Retain roots.

Heat water to boiling temperature. Add beets. Cook about 35 to 60 minutes or until tender. Drain.

Cover beets with cold water. Peel. Dice or slice.

Add cloves to 1 gallon water. Heat to boiling temperature. Add cinnamon, salt, pepper, sugar and vinegar. Cook 10 minutes. Strain.

Pour juice over beets. Heat to boiling temperature. Add butter.

NOTE.—1. 4 No. 10 cans (31/4 gallons) beets may be used in place of 33 pounds fresh beets.

2. Reduce sugar if a more sour sauce is preferred.

Variations

Cold Pickled Beets

Prepare beets as for Spiced Beets. Omit butter. Cool. Slice or quarter.

Chill before serving.

Beet Relish

Chop fine, 15 pounds Spiced Beets.

Add 8 pounds (2 gallons) finely chopped raw cabbage.

Add 4 ounces (½ cup) grated fresh horseradish.

Mix well. Serve cold.

Note.—If fresh horse-radish is not available, use prepared horse-radish and season to taste.

BUTTERED BROCCOLI

Portion: 3 to 4 ounces.

		100 F		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Broccoli, A.P.	Pounds 45	Ounces 		
Salt		2	1/ ₄ cup	
Water			To cover	
Butter, melted	1	8	1½ pints	

Remove discolored outer leaves of broccoli. Cut off tougher part of stems.

Soak broccoli in cold salted water (1/4 cup salt to 1 gallon water) about 30 minutes. Drain.

Add salt to water. Heat to boiling temperature. Add broccoli. Cook about 20 minutes or

until tender. Drain.

Add butter just before serving.

NOTE.—Broccoli may be served with Mock Hollandaise Sauce (page 214).

BUTTERED BRUSSELS SPROUTS

Portion: 3 to 4 ounces.

		100 F		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Brussels sprouts, A.P.	Pounds 30	Ounces 		
Salt	****	2	1/4 cup	
Water, boiling			To cover	
Butter, melted	1	8	1½ pints	

Remove discolored or wilted outside leaves. Trim the stem end. Wash thoroughly.

Soak in salted cold water (1/4 cup salt to 1 gallon water) 20 to 30 minutes. Drain,

Add salt to boiling water. Add brussels sprouts.

Cook uncovered 15 to 20 minutes or until tender. Drain.

Add butter just before serving.

BUTTERED CABBAGE

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 I		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	Portions
Salt	Pounds	Ounces 2	1/4 cup	
Water				
Cabbage, A.P.	31			
Butter, melted	1		1 pint	
Paprika			To garnish	

Add salt to water which measures approximately ¼ the volume of cabbage to be cooked. Heat to boiling temperature.

Trim and wash cabbage. Cut into wedges. Cook, covered, in boiling water about 10 to 15 minutes or until tender. Drain.

Add butter. Garnish with paprika if desired. Note.—1. Cook cabbage in small batches. Overcooking causes cabbage to lose its natural color and become unpalatable.

2. Cabbage may be shredded and cooked with ham bones or salt pork.

Variations

Creamed Cabbage

Combine cabbage with 1½ gallons Medium Cream Sauce (page 208).

Cabbage with Bacon

Fry 2 pounds diced bacon until crisp. Use bacon fat as part of fat in Medium Cream Sauce (page 208).

Add bacon to $1\frac{1}{2}$ gallons of sauce. Combine with cabbage.

SIMMERED CABBAGE

(Using dehydrated cabbage)

Portion: Approx. 3½ ounces (approx. ½ cup).

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		100]	Donmyour		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions	
Cabbage, dehydrated	Pounds 2	Ounces 12	23/1 gallons		
Water			3 gallons		
Salt		3	6 tablespoons		
Bacon, diced	21/4		1 quart		
Pepper		3/8	11/3 tablespoons		

Soak cabbage in water 45 to 60 minutes. Cover.

Heat, slowly, to boiling temperature, about 40 minutes. Add salt. Simmer 10 to 15 minutes.

Drain ½ the liquid from cabbage and reserve for soups or stews.

Fry bacon until lightly browned.

Add bacon, bacon fat and pepper to cabbage. Reheat.

NOTE.—1. 1 pound dehydrated cabbage is equivalent to 16 pounds cabbage, A.P., or to 8½ pounds cooked, drained cabbage.

- 2. Reconstituted cabbage may be used as an ingredient for soups and stews.
- 3. Dehydrated cabbage must be held in an air-tight container at all times. Absorption of too much moisture will result in development of unsatisfactory flavor.

Variations

Sweet Sour Cabbage

Soak and cook cabbage as for Simmered Cabbage, omitting bacon. Drain.

Add $1\frac{1}{2}$ pints vinegar and 6 ounces ($\frac{3}{4}$ cup) sugar.

Mix well and reheat.

Creamed Cabbage

Soak and cook cabbage as for Simmered Cabbage, omitting bacon. Drain.

Combine with 1 gallon Medium Cream Sauce (page 208). Reheat.

Corned Beef and Cabbage

Soak and cook cabbage as for Simmered Cabbage, omitting bacon. Drain.

Add 6 pounds canned corned beef, broken into small pieces. Mix well. Reheat.

BUTTERED CARROTS

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 P	ORTIONS
Ingredients	WEI	GHTS	AMOUNTS (approx.)
Salt	Pounds 	Ounces 3	6 tablespoons
Sugar	••••	2	1/4 cup
Water			To cover
Carrots, A.P.	30	****	
Pepper		••••	1 teaspoon
Butter, melted	1		1 pint

Add salt and sugar to water. Heat to boiling temperature. Wash carrots. Peel, slice or dice.

Cook in boiling water about 25 minutes or until tender. Drain. Stir in pepper and butter.

NOTE.—4 No. 10 cans (3½ gallons) carrots may be used in place of 30 pounds fresh carrots.

gallons Bechamel Sauce (page 211).

Buttered Carrots and Peas

Combine 3 No. 10 cans (2½ gallons) peas, drained, with 16 pounds carrots, cooked and diced, 1 pound butter and 2 ounces salt. Heat.

French Fried Carrots

Clean and cut carrots in strips.

Cook carrots. Cool. Dip in egg wash. Cover with crumbs.

Fry in hot deep fat at 375°F. 5 to 7 minutes.

Variations

Carrots Bechamel

Combine 25 pounds carrots, cooked, with 2

BUTTERED CARROTS

(Using dehydrated carrots)

Portion: Approx. 3 ounces (approx. ½ cup).

		100 P		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Carrots, diced, dehydrated	Pounds 3	Ounces 8	1 gallon	
Water			2½ gallons	
Butter, melted		12	1½ cups	
Salt	••••	21/2	5 tablespoons	
Pepper		1/2	13/4 tablespoons	

Soak carrots in water 45 minutes. Cover.

Heat, slowly, to boiling temperature, about 45 minutes.

Let simmer 10 minutes or until tender.

Remove from heat. Add butter, salt and pepper. Stir until thoroughly mixed.

NOTE.—1. 1 pound dehydrated carrots is approximately equivalent to $12\frac{1}{2}$ pounds fresh, unpeeled carrots or to 6 pounds drained, cooked carrots, or to $7\frac{1}{2}$ pounds canned carrots with liquor.

2. Cook carrots with minimum amount of water.

Variation

Creamed Carrots

Soak and cook carrots as for Buttered Carrots.

Combine with 1 gallon Medium Cream Sauce (page 208). Reheat

BUTTERED CELERY

Portion: 4 to 5 ounces.

		100 P		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Celery, A.P.	Pounds 34	Ounces 		
Salt		2	1/4 cup	
Water		•	To cover	
Butter, melted	1	****	1 pint	

Remove leaves. Trim roots and separate stalks. Wash thoroughly.

Cut stalks into 1 to 2-inch pieces.

Add salt to water. Heat to boiling temperature. Add celery.

Cook 10 to 20 minutes or until tender. Drain. Add butter just before serving.

NOTE.—1. Celery hearts may be reserved and used as a relish or in salad.

- 2. Reserve leaves to use in soups, stews or salads.
- 3. Use soft brush to clean outer stalks. Scrape off any discoloration with a knife.

BUTTERED CAULIFLOWER

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 P		
Ingredients	WEI	GHTS	Amounts (approx.)	Portions
Cauliflower, A.P.	Pounds 50	Ounces 		
Salt		2	1/4 cup	
Water, boiling		••••	To cover	
Butter, melted	2		1 quart	

Remove outer leaves and stalks of cauliflower. Leave whole or break into sections. Soak in salted water (1/4 cup salt to 1 gallon water) about 1/2 hour. Drain.

Add salt to water. Heat to boiling temperature. Add cauliflower. Cook about 15 minutes or until tender. Drain.

Pour butter over cauliflower. Garnish with paprika if desired.

Variations

Cauliflower Au Gratin

Place cooked cauliflower in greased baking pans. Cover with 1½ gallons Cheese Sauce (page 210).

Sprinkle with buttered crumbs. Bake in moderate oven (350°F.) about 30 minutes.

Cauliflower Hollandaise

Serve cauliflower with 1½ gallons Mock Hollandaise Sauce (page 214).

Cauliflower with Buttered Crumbs

Mix together 2 pounds $(2\frac{1}{2} \text{ quarts})$ dry, fine bread crumbs and 2 pounds (1 quart) melted butter.

Toast in moderate oven (350°F.) until lightly browned. Sprinkle on cooked cauliflower.

BUTTERED CORN

Portion: 3 to $3\frac{1}{2}$ ounces (approx. $\frac{1}{2}$ cup).

		100 I	Portions	
Ingredients	Weights			AMOUNTS (approx.)
Corn, cream style Butter, melted	Pounds 25	Ounces 	20 No. 2 cans (31/4) gallons). 1 pint	*
Sugar	****	4	1/2 cup	
Salt	••••	2	1/4 cup	
Pepper			1 teaspoon	

Heat corn to boiling temperature. Stir in butter, sugar, salt, and pepper. NOTE.—When whole kernel corn is used, drain before adding butter and seasonings.

Portion: 1 (approx. 7-ounce) ear.

		100 H			
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions	
Corn, A.P.	Pounds 50	Ounces 	100 ears		
Salt		1-11/2	2 to 3 tablespoons per gallon of water.		
Water			To cover		

Husk corn. Add salt to water. Heat to boiling temperature.

Cook corn in rapidly boiling water about 8 to 15 minutes or until tender. Drain. Serve very hot.

NOTE.—Add a small quantity of sugar to boiling water if corn is not fresh or young. Fresh corn should be cooked as soon as possible after purchase.

CORN FRITTERS (Cream-style corn)

Portion: 2 medium fritters.

		100 P	ORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Flour	Pounds 5	Ounces 	1½ gallons
Baking powder		21/2	6 tablespoons
Salt		$2\frac{1}{2}$	5 tablespoons
Sugar		2	½ cup
Eggs, beaten	1		10 (1 pint)
Shortening, melted	yo-LE	8	1/2 pint
Corn, cream-style	10		8 No. 2 cans $(1\frac{1}{4})$ gallons).

Sift together flour, baking powder, salt and sugar.

Combine eggs, shortening and corn. Add to flour mixture. Stir until smooth.

Drop by spoonsful into hot deep fat at 375°F. and fry 3 to 5 minutes, turning fritters frequently to brown them evenly.

Drain on absorbent paper. Serve very hot.

NOTE.—1. Serve with sirup or jelly, if de-, sired.

- 2. To be crisp, fritters should be fried continuously, in small batches, and served immediately. They should not stand on the steam table or in oven.
- 3. For convenience and uniformity a No. 20 or No. 24 ice cream scoop can be used to drop batter into hot fat.

CORN FRITTERS

(Whole kernel corn)

Portion: 2 medium fritters.

		100 P	ORTIONS
Ingredients	Wei	GHTS	Amounts (approx.)
Flour	Pounds 4	Ounces 	1 gallon
Baking powder		21/8	5½ tablespoons
Salt		2	½ cup
Sugar		2	1/4, cup
Eggs, beaten		14	9 (1 pint)
Milk, liquid			1¾ quarts
Shortening, melted		6	3/4, cup
Corn, whole kernel	13	4	2 No. 10 cans (6½ quarts).

Sift flour, baking powder, salt and sugar together.

Combine eggs, milk and shortening. Add flour mixture and stir until smooth.

Drain corn. Add to flour mixture and mix well.

Drop by spoonsful into hot deep fat at 375°F. and fry 3 to 5 minutes, turning fritters frequently to brown evenly.

Drain on absorbent paper. Serve very hot.

Note.—1. Serve with sirup or jelly, if desired.

2. To be crisp, fritters should be fried continuously, in small batches, and served immediately. They should not stand on the steam

table or in oven.

3. For convenience and uniformity a No. 20 or No. 24 ice cream scoop can be used to drop batter into hot fat.

Variations

Corn and Ham Fritters

Use $4\frac{1}{2}$ pounds cooked, finely chopped ham in place of half the kernel corn.

Carrot Fritters

Use $6\frac{1}{2}$ quarts of cooked diced carrots, or 2 No. 10 cans diced carrots in place of kernel corn.

CORN PUDDING

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Corn, cream-style	Pounds 28	Ounces 12	23 No. 2 cans (3¾ gallons).	
Salt		2	½ cup	
Milk, liquid			51/4 quarts	
Eggs, lightly beaten	3	9	36 (1¾ quarts)	
Bread, soft, broken	1		21/4 quarts	

Combine corn, sugar, salt and milk. Heat to boiling temperature.

Mix together eggs and bread. Stir into corn mixture.

Bake in greased baking pans in slow oven (300°F.) until set.

Pans may be placed in hot water to bake to

reduce tendency to curdle.

Variation

Southern Corn Pudding

Add 3 pounds (3/4 gallon) finely chopped green peppers to corn pudding before baking.

SAUTEED CORN

Portion: 3 to 4 ounces (approx. 2/3 cup).

		100 F		
Ingredients	WEIGHTS		Amounts (approx.)	Portions
Corn, whole kernel	Pounds 26 2	Ounces 8	4 No. 10 cans (3½ gallons). 1 quart	
Pimientos, chopped		7	1 (7-ounce can) (1 cup)	
Peppers, green, chopped	1	8	1½ quarts	
Salt		2	1/4 cup	
Pepper			2 teaspoons	

Drain corn. Fry bacon until lightly browned.

Add corn, pimiento, green pepper, salt and pepper. Fry about 5 minutes.

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 P	PORTIONS	- Portions
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Cornmeal, yellow	Pounds 4	Ounces 8	3½ quarts	
Salt		31/2	7 tablespoons	
Sugar		$3\frac{1}{2}$	7 tablespoons	
Water, boiling	••••		13/4 gallons	
Milk, liquid			21/4 gallons	
Eggs, well beaten	3	8	35 (3½ pints)	
Butter or other fat, melted		8	1 cup	
Baking powder		63/4	1 cup	

Combine cornmeal, salt and sugar. Stir into water.

Heat to boiling temperature. Cook 5 minutes, stirring constantly, until thickened.

Heat milk to boiling temperature.

Stir eggs and fat into milk. Add to cornmeal mixture, stirring constantly. Stir in baking powder. Mix thoroughly.

Pour into greased baking pan.

Bake in moderate oven (350°F.) 45 minutes or until set.

NOTE.—Before baking, set pan of spoon bread into pan of hot water to insure smooth texture. Bake.

FRIED EGGPLANT

Portion: 3½ to 4 ounces (approx. 2 slices).

Lyappanana		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Eggplant, A.P.	Pounds 28	Ounces		
Eggs	2	6	24 (1½ quarts)	
Water	•	••••	3/4 pint	
Salt	****	3	6 tablespoons	
Bread crumbs, fine	1		½ gallon	

Peel eggplant. Cut crosswise into 1/4-inch slices.

Beat eggs slightly. Stir in water and $1\frac{1}{2}$ ounces salt.

Mix remaining salt with crumbs.

Dip eggplant in egg mixture. Drain well. Dip in crumbs, coating thoroughly.

Fry in hot deep fat at 375°F. 5 to 7 minutes

or until golden brown and tender.

Drain on absorbent paper. Serve immediately.

Note.—1. 1 quart of undiluted evaporated milk may be used in place of beaten eggs.

2. Fry eggplant as near to serving time as possible as eggplant loses its crispness upon standing. Do not let stand on steam table.

ESCALLOPED EGGPLANT WITH TOMATO

Portion: 4 to $4\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

		100 F	ORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Salt	Pounds	Ounces 2	1/4, cup
Water			To cover
Eggplant, A.P.	28	••••	
Onions, chopped	4	****	3/4 gallon
Butter or other fat	1	****	1 pint
Bread, chopped	1		½ gallon
Tomatoes	12	12	2 No. 10 cans $(6\frac{1}{2})$ quarts).
Sugar		2	1/4 cup
Salt		1	2 tablespoons
Pepper		"	1 teaspoon

Add 1/4 cup salt to water. Heat to boiling temperature.

Peel eggplant. Cut into cubes. Cook in boiling water about 10 minutes or until tender.

Fry onions in fat until clear. Add bread and

fry until lightly browned.

Combine tomatoes, sugar, salt, pepper, eggplant and onion mixture.

Place in baking pans. Bake in moderate oven (350°F.) 30 to 40 minutes.

BUTTERED GREENS

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 F	Portions	
Ingredients	Weights		AMOUNTS (approx.)	FORTIONS
Greens, A.P.	Pounds 32	Ounces 		
Salt		2	1/4 cup	
Pepper			1 teaspoon	
Bacon fat or butter, melted	1	8	1½ pints	

Remove roots and tougher parts of stems from greens.

Wash greens thoroughly several times in cold water. Drain.

Place in cooking vessel in 15 to 20-pound lots. Sprinkle with salt. Cover vessel.

Cook required length of time for particular "green." See Note.

Drain. Add pepper and bacon fat or butter.

NOTE.—1. COOKING TIME FOR GREENS

Beet, young	6	to	12	minutes
Dandelion, young	6	to	12	minutes
Kale	20	to	30	minutes
Spinach	6	to	12	minutes
Swiss chard	15	to	25	minutes

2. Vegetable greens require, for cooking, only the amount of water clinging to the leaves after washing them. Cooking in this amount of water helps to retain valuable vitamins and minerals. Reserve liquid drained off cooked greens.

3. Greens may be cut before or after cooking but pieces should be left fairly large.

Variation

Southern Greens

Cook greens in small amount of liquid in which ham or salt pork has been cooked.

Add 1/4 pint vinegar.

Garnish with ham or diced salt pork.

CREAMED HOMINY

Portion: 4 to $4\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Hominy	Pounds 26	Ounces 4	4 No. 10 cans (31/4 gallons).	
Cream Sauce (page 208)			1½ gallons	

Heat hominy and drain. Stir into cream sauce and reheat.

Note.—1 (7-ounce) can $(\frac{1}{2}$ pint) finely

chopped pimientos may be added to Cream Sauce for color and flavor, if desired.

FRIED (SAUTEED) HOMINY

Portion: 4 ounces (approx. 2/3 cup).

		100 H		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Hominy	Pounds 26	Ounces 4	4 No. 10 cans (31/4 gallons).	
Peppers, green, chopped	1	8	1½ quarts	
Pimientos, chopped		15	1 (15-ounce) can (1 pint).	
Salt		5		
Butter or bacon fat	1	8	1½ pints	

Drain hominy and combine with green peppers, pimientos, and salt.

Fry in fat until lightly browned.

NOTE.—Peppers and pimientos may be omitted. Garnish with crisp parsley sprigs for color.

HOMINY SPOONBREAD

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 H		
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	Portions
Milk, liquid	Pounds 	Ounces 	33/4 gallons	
Hominy grits	5		33/4 quarts	
Salt		8 -	1 cup	
Baking powder		33/4	9 tablespoons	
Egg yolks, well beaten	2	8	60 (11/4 quarts)	
Butter or other fat, melted	2	12	2¾ pints	
Egg whites, stiffly beaten	3	5	60 (3½ pints)	

Heat milk to boiling temperature.

Add hominy and salt to milk, stirring constantly. Cover.

Cook 20 minutes, stirring occasionally. Cool slightly.

Stir baking powder into egg yolks. Add fat. Stir into hominy mixture. Fold in egg whites.

. Pour into well greased baking pans.

Bake in moderate oven (350°F.) 30 to 40 minutes or until set.

Note.—Before baking set pan of spoonbread in pan of hot water and bake to insure smooth texture.

NOODLES WITH BUTTERED CRUMBS

Portion: 5 to 6 ounces (approx. 1 cup).

		100 P	Portions	
Ingredients	WEIGHTS		Amounts (approx.)	TORTIONS
Salt	Pounds	Ounces 4	½ cup	
Water		••••	10 gallons	
Noodles	8			
Salt		1	2 tablespoons	
Pepper		•	2 teaspoons	
Bread crumbs, dry	1	8	½ gallon	
Butter, melted	2		1 quart	

Add ½ cup salt to water. Heat to boiling temperature.

Stir in noodles. Cook 20 minutes or until tender. Drain well.

Add 2 tablespoons salt and pepper to bread crumbs. Brown in butter.

Combine with noodles.

NOTE.—Serve with meat in place of potatoes.

Variation

Fried Noodles

Cook noodles in boiling salted water 20 minutes or until tender. Drain well. Dry noodles between clean towels.

Fry in hot deep fat at 390°F. 1 minute or until brown. Drain on absorbent paper. Sprinkle with salt. Serve very hot.

FRENCH FRIED ONIONS

Portion: $2\frac{1}{2}$ to 3 ounces (approx. $\frac{2}{3}$ cup).

		100 F	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Onions, Spanish, A.P.	Pounds 28	Ounces 	
Milk, liquid			½ gallon
Flour	1	8	1½ quarts
Salt	H	2	1/4 cup
Pepper			1 teaspoon

Peel onions. Cut into ¼-inch thick slices. Separate slices into rings.

Dip into milk. Drain well.

Mix flour, salt and pepper. Dredge onion rings in flour.

Fry in hot deep fat at 345°F. 5 to 6 minutes

or until golden brown.

Drain well on absorbent paper.

NOTE.—Let onion rings stand in ice water 10 to 15 minutes to crisp before dipping into milk and flour.

BUTTERED ONIONS

Portion: 4 to $4\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

		100 F	Decrease	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Onions, A.P.	Pounds 28	Ounces 		
Salt		4	1/2 cup	
Water		••••	6 gallons	
Butter, melted	1	8	1½ pints	

Peel onions. Wash. Quarter or slice.

Add salt to water. Heat to boiling temperature. Add onions. Cook, uncovered, about 25 minutes or until tender. Drain.

Add butter.

NOTE.—Garnish with paprika or chopped parsley, if desired.

Variations

Creamed Onions

Combine cooked onions with $1\frac{1}{2}$ gallons Medium Cream Sauce (page 208).

Buttered Sweet Onion Rings

Peel Spanish onions. Wash. Slice crosswise in ¼-inch thick slices. Separate into rings before cooking.

Cook as for Buttered Onions.

Onions Au Gratin

Place cooked, quartered onions in greased baking pans.

Cover with $1\frac{1}{2}$ gallons Cheese Sauce (page 210). Sprinkle with buttered bread crumbs.

Bake in moderate oven (350° F.) 20 minutes.

FRIED ONIONS

Portion: 4 to $4\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

		100 P		
INGREDIENTS	GREDIENTS WEIGHT		AMOUNTS (approx.)	Portions
Onions, A.P.	Pounds 35	Ounces		
Beef drippings, or other fat, melted.	3	8	13/4 quarts	
Salt		3	6 tablespoons	

Peel onions and cut into ¼ inch thick slices. Add onions to fat and sprinkle with salt. Fry over direct heat or in hot oven (400°F.)

until golden brown. Stir frequently to prevent sticking.

SMOTHERED ONIONS

(Using dehydrated onions)

Portion: Approx. 2½ ounces (½ to ½ cup).

		100 F	Davida	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Onions, dehyrdated	Pounds	Ounces 	2½ gallons	
Water			2½ gallons	
Fat	1½	••••	1½ pints	
Salt		21/2	5 tablespoons	

Stir onions into water. Let soak 20 minutes. Drain. Reserve onion water.

Heat fat to frying temperature. Add reconstituted onions.

Cook, stirring frequently, until slightly brown and tender. Stir in salt and onion water. Cover. Let simmer 30 to 45 minutes until excess water cooks off.

Note.—1. 1 pound dehydrated onions is approximately equivalent to $12\frac{1}{2}$ pounds unpeeled fresh onions or to $6\frac{1}{2}$ to 7 pounds reconstituted (cooked) onions.

2. Reconstitute onions properly to avoid toughness.

Variation

Creamed Onions

Soak and cook onions as for Smothered Onions.

Combine with 1 gallon Medium Cream Sauce (page 208). Reheat.

Serve hot on toast, if desired.

GLAZED ONIONS

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 F		
Ingredients	Wei	CHTS	AMOUNTS (approx.)	Portions
Onions, small, A.P.	Pounds 28	Ounces 	•	
Salt		11/2	3 tablespoons	
Water			To cover	
Sugar, brown	3	4	21/4 quarts	
Butter or other fat	1	12	13/4 pints	
Water (for sirup)			31/4 quarts	

Peel onions. Leave whole. Wash.

Add 1 tablespoon of salt to water. Heat to boiling temperature. Add onions. Cook, uncovered, about 15 minutes or until partially tender. Drain.

Arrange onions in baking pans.

Mix thoroughly sugar, remaining salt, butter

and water to make thin sirup. Pour over onions.

Bake in moderate oven (350°F.) about 30 minutes. Baste frequently to insure good glaze and uniform tenderness.

NOTE.—Pierce through onion with fork or small bladed knife to prevent breaking or bursting while cooking.

BAKED ONIONS WITH TOMATOES

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 H	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Onions, A.P.	Pounds 28	Ounces	
Salt		21/2	5 tablespoons
Water	8		To cover
Bay leaves			6 to 8
Sugar	-	4	½ cup
Celery salt	****	1	3 tablespoons
Pepper			1½ teaspoons
Cloves, whole		••••	6 to 8
Tomatoes	12	12	2 No. 10 cans (6½
Butter or other fat		12	quarts). 3/4 pint
Flour	F	4	1/2 pint

Peel onions. Wash and quarter.

Add 1 tablespoon of salt to water. Heat to boiling temperature. Add onions. Cook about 25 minutes or until tender. Drain.

Add bay leaves, sugar, celery salt, pepper, remaining salt and cloves to tomatoes. Heat to boiling temperature. Cook about 5 minutes.

Remove bay leaves and cloves.

Blend together fat and flour. Stir into tomato mixture.

Place onions in baking pans. Pour tomato mixture over onions.

Bake in moderate oven (350°F.) about 15 minutes.

BUTTERED PARSNIPS

Portion: 4 to $4\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Parsnips, A.P.	Pounds 30	Ounces		
Salt		3	6 tablespoons	
Water		••	6 gallons	
Butter, melted	1	••••	1 pint	
Pepper			1 teaspoon	

Peel parsnips. Split and quarter.

Add salt to water. Heat to boiling temperature. Add parsnips.

Cook in boiling water about 30 minutes or

until tender. Drain.

Add melted butter and pepper.

NOTE.—Chopped parsley can be sprinkled over parsnips before serving.

BUTTERED PEAS

Portion: $3\frac{1}{2}$ to 4 ounces (approx. $\frac{2}{3}$ cup).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	PORTIONS
Peas, A.P.	Pounds 60	Ounces 		
Salt		11/2	3 tablespoons	
Water			To cover	
Sugar		2	1/4 cup	
Butter, melted	1	****	1 pint	

Shell peas. Add salt to water. Heat to boiling temperature.

Add peas and cook, uncovered, about 20 minutes or until tender.

Drain. Stir in sugar and butter.

NOTE.—4 No. 10 cans (3½ gallons) of peas may be used in place of 60 pounds of fresh peas. Heat peas in part of liquor from cans.

BUTTERED PEAS AND CELERY

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 H	Portions	
Ingredients	WEI	WEIGHTS AMOUNTS (approx.)		
Peas Water	Pounds 26	Ounces 4	4 No. 10 cans (31/4 gallons). To cover	
Celery, diced			31/4 gallons	
Butter, melted	1		1 pint	
Salt		1	2 tablespoons	

Heat peas. Drain and reserve liquid.

Combine water and liquid from peas. Heat to boiling temperature.

Add celery. Cook about 15 minutes or until tender. Drain.

Combine peas and celery. Stir in butter and salt. Reheat.

Variation

Creamed Peas and Celery

Combine peas and celery and mix with 1½ gallons Cream Sauce (page 208). Reheat.

Use liquid from peas and celery as basis for sauce.

BLACK-EYED PEAS

Portion: 5 ounces (approx. $\frac{2}{3}$ cup).

		100 F		
Ingredients	WEIGHTS		Amounts (approx.)	PORTIONS
Peas, black-eyed, dried	Pounds 12	Ounces	13/4 gallons	
Water, boiling			5 gallons	
Salt pork	4			
Salt	2	31/2	7 tablespoons	
Pepper, cayenne			1/4 teaspoon	

Pick over and wash peas thoroughly. Cover with $2\frac{1}{2}$ gallons water.

Let stand about 1 hour. Do not drain.

Score pork. Add 2½ gallons water. Cook 1 hour. Drain.

Combine peas, salt pork, salt and cayenne pepper. Cook 1 hour.

Note.—To score salt pork, cut in $\frac{1}{3}$ -inch slices down to skin side. Serve cooked peas with

slices of salt pork, if desired. Cut salt pork off rind for slices.

Variations

Black-Eyed Peas and Rice

Combine black-eyed peas with cooked rice. Season with butter or bacon.

Chopped onion or canned tomatoes may be added, if desired.

BAKED WHITE OR SWEETPOTATOES

Portion: 7 to 8 ounces (1 potato).

Ingredients		100 P	Portions	
INGREDIENTS	WEIGHTS			AMOUNTS (approx.)
Potatoes, A.P.	Pounds 44	Ounces	100 medium	

Select potatoes of even shape and size. Scrub well.

Bake on shallow baking pans in hot oven (400°F.) about 1 to $1\frac{1}{2}$ hours or until done.

NOTE.—1. Prick with fork or cut skins to allow for escape of steam, as soon as potatoes are removed from oven.

2. New white potatoes may be baked.

BOILED POTATOES IN JACKETS

Portion: 5 to $5\frac{1}{2}$ ounces.

Inappendict		100 F	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Salt	Pounds	Ounces 4	½ cup	
Water			To cover	
Potatoes, A.P.	44		100	

Add salt to water. Heat to boiling temperature. Add potatoes.

Cook 30 to 40 minutes or until tender. Drain. Note.—Whole potatoes, peeled, or in jackets should be cooked, preferably in a steamer. Place potatoes in steamer basket. Place baskets in steamer. Lock cabinet. Turn on steam and cook required length of time. See Time-Table (page 282).

Variations

Creamed Potatoes

Peel boiled potatoes. Cut into $\frac{3}{4}$ -inch cubes. Combine with $\frac{1}{2}$ gallons Medium Cream Sauce

(page 208). Heat.

Note.—Paprika or finely chopped pimientos may be added to cream sauce.

Potatoes Au Gratin

Cook potatoes. Peel and dice. Place in greased baking pans.

Cover with Cheese Sauce (page 210) seasoned with 1 tablespoon dry mustard.

Sprinkle with $1\frac{1}{2}$ quarts buttered bread crumbs.

Bake in moderate oven (375°F.) 10 to 20 minutes.

PARSLEY BUTTERED POTATOES

Portion: 5 to 5½ ounces.

		100 H		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Salt	Pounds	Ounces 4	1/2 cup	
Water	••••		To cover	
Potatoes, A.P.	44			
Butter, melted	1	4	11/4 pints	
Parsley, finely chopped		1	1/3 cup	

Add salt to water. Heat to boiling temperature.

Peel and wash potatoes. Cook, whole, 30 to 40 minutes or until tender. Drain.

Pour butter over potatoes. Sprinkle with crisp parsley.

Note.—1. ½ ounce (2 tablespoons) paprika may be used in place of finely chopped parsley.

2. New potatoes are best to prepare in this manner.

Variations

Browned Potatoes

Cook potatoes. Drain well.

Fry in hot deep fat at 375° F. to 400° F. about 4 minutes.

Drain on absorbent paper. Sprinkle with salt.

Serve immediately.

ESCALLOPED POTATOES

Portion: 5 to $5\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

		100 I	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Potatoes, A.P.	Pounds 44	Ounces 		
Salt		21/2	5 tablespoons	
Cream Sauce (page 209)			2½ gallons	

Peel and wash potatoes. Slice thin and season with salt.

Arrange alternate layers of cream sauce and potatoes in greased baking pans. Bottom and top layers should be cream sauce.

Bake in slow oven $(325^{\circ}F.)$ about $1\frac{1}{2}$ to 2 hours or until potatoes are tender.

Note.—1. Finely diced, cooked bacon or ham, green peppers, pimientos or chives may be added to the cream sauce.

2. Grated cheese or buttered crumbs may be sprinkled over the top 5 to 10 minutes before removing from oven.

FRANCONIA POTATOES

Portion: 5 to $5\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

		100 P	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Salt	Pounds	Ounces 4	½ cup	
Water		••••	To cover	
Potatoes, A.P.	44			
Butter, melted	1	4	11/4 pints	

Add salt to water. Heat to boiling temperature.

Peel and cut potatoes into wedges or halves.

Cook in boiling water about 15 minutes or until half done. Drain.

Place in greased baking pans. Brush with

butter.

Bake in hot oven (400°F.) 15 to 20 minutes or until done.

NOTE.—New potatoes, scrubbed, may be cooked, whole and unpeeled, then cut in half lengthwise, brushed with butter and browned.

FRENCH FRIED POTATOES

Portion: 4 to $4\frac{1}{2}$ ounces.

		100 F	_	
Ingredients	WEIG	GHTS	AMOUNTS (approx.)	Portions
Potatoes, A.P.	Pounds 44	Ounces 		
Salt		3	6 tablespoons	
Fat, for deep frying				

Peel and wash potatoes. Cut into long narrow strips about ½ inch thick.

Cover with cold or ice water. Let stand 1 to $1\frac{1}{2}$ hours.

Drain. Dry well in a cloth.

Fry in hot deep fat at 375°F. about 4 to 6 minutes or until tender and browned.

Drain on absorbent paper. Sprinkle with salt. Serve immediately.

NOTE.—Potatoes may be partially fried ahead of time, about 3 to 4 minutes in deep fat at 350°F. Just before serving complete the frying in deep fat at 375°F.

By using this "double frying" method, French fried potatoes can be served hot and crisp. The frying should be a continuous process, especially for "self service."

HASHED BROWNED POTATOES

Portion: 5 to $5\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

Tuennhung		100 H		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Potatoes, cooked	Pounds 35	Ounces 	5½ gallons	
Fat, melted	2		1 quart	
Salt		3	6 tablespoons	
Pepper			2 teaspoons	

Chop potatoes into small pieces. Place in deep baking or roasting pans.

Pour fat over potatoes. Sprinkle with salt and pepper.

Bake in hot oven (400°F.) 20 to 25 minutes, or until well browned.

Turn potatoes several times to insure even browning.

HASHED BROWNED POTATOES

(Using dehydrated potatoes)

Portion: Approx. $4\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

		100 I			
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions	
Potato cubes, dehydrated	Pounds 5	Ounces 8	2 gallons		
Water			3½ gallons		
Salt		3	6 tablespoons		
Fat	2		1 quart		

Soak potatoes in water 60 minutes. Cover. Heat slowly to boiling temperature about 45 minutes.

Add salt. Let simmer 10 minutes. Drain thoroughly. Cool.

Heat fat to frying temperature. Add potatoes and mix lightly with fat.

Fry at low temperature, without turning, 10 to 15 minutes or until potatoes on bottom are evenly browned.

Turn and continue frying about 20 minutes. Turn occasionally.

NOTE.—1. 1 pound dehydrated potatoes is approximately equivalent to 6 pounds raw un-

peeled potatoes or to $4\frac{1}{2}$ pounds peeled potatoes.

2. Drain potatoes well. Soggy potatoes will not brown well.

Variation

Lyonnaise Potatoes

Prepare as for Hashed Browned Potatoes. Reconstitute 12 ounces dehydrated onions in 3/4 gallon water, 45 minutes.

Heat to boiling temperature. Let simmer about 15 minutes or until onions are tender. Drain. Stir into potatoes. Fry potatoes until lightly browned.

HOME-FRIED POTATOES

Portion: 4 to 5 ounces (approx. 2/3 cup).

Industrial		100 F	Portions	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Contions
Potatoes, A.P.	Pounds 44	Ounces 		
Meat drippings or other fat	2	••••	1 quart	
Salt	•	3	6 tablespoons	
Pepper			1½ teaspoons	

Peel potatoes. Rinse. Slice.

Heat fat to frying temperature. Add potatoes. Sprinkle with salt and pepper. Mix well.

Cook over direct heat or in hot oven (450°F.) 20 to 30 minutes until tender and well browned.

Turn potatoes occasionally to insure even cooking.

Variation

Cottage Fried Potatoes

Cook potatoes in jackets. Cool. Peel and slice in ¼-inch slices. Cook as for Home-Fried Potatoes.

LYONNAISE POTATOES

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 I		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Potatoes, cooked	Pounds 35	Ounces 	5½ gallons	
Onions, minced	1	****	1½ pints	
Butter or other fat	2		1 quart	
Salt		3	6 tablespoons	
Pepper			1½ teaspoons	

Cut potatoes into ½-inch slices. Fry onions in fat, about 3 minutes or until clear.

Combine onions, potatoes, salt and pepper. Place in greased baking pans. Cook in hot oven (400°F.) or on top of range until lightly browned.

Note.—3/4 pint finely chopped parsley may be added to the potatoes with the onions.

Portion: 5 to $5\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

Y		100 F	Portions	
Ingredients	WEIGHTS			AMOUNTS (approx.)
Potatoes, A.P.	Pounds 44	Ounces 		
Water			4 gallons	
Milk, liquid, hot			51/4 quarts	
Salt		4	½ cup	
Butter, melted	1		1 pint	

Peel potatoes. Heat water to boiling temperature. Add potatoes and cook about 30 to 40 minutes or until tender. Drain.

Place in mixer and beat at low speed until potatoes are broken up.

Change to high speed and beat about 2 or 3 minutes until no lumps remain.

Add milk, salt and butter to potatoes.

Beat at low speed until mixture is blended. Beat at high speed about 2 minutes.

Note.—1. Serve potatoes as soon as mashed. If potatoes have to be held for any length of time, cover with a damp cloth or brown paper.

Keep warm in slow oven (250°F.).

2. 2 pounds ($\frac{1}{2}$ gallon) finely chopped parsley may be added with the salt, milk and butter, if desired.

Variation

Mashed Potatoes and Rutabagas

Combine 21 pounds ($2\frac{1}{2}$ gallons) hot, mashed white potatoes with 14 pounds ($1\frac{1}{2}$ gallons) hot, mashed rutabagas. Mix until well blended. Serve hot.

MASHED POTATOES

(Using dehydrated, shredded potatoes)

Portion: Approx. 41/2 ounces (approx. 2/3 cup).

		100 I	PORTIONS
Ingredients	WEI	GHTS	Amounts (approx.)
Water	Pounds	Ounces 8	2 gallons
Potato shreds, dehydrated, precooked.	5		2 gallons
Salt		3	6 tablespoons
Milk, liquid, hot	hila	****	3/4 gallon
Butter, melted	1		1 pint

Heat water to vigorous boil. Pour over potatoes. Cover.

Let stand in warm place 15 minutes or over low heat 10 minutes.

Add salt. Stir vigorously 15 to 20 minutes or until smooth.

Add milk and butter. Whip until light. Serve immediately.

MASHED POTATOES

(Using dehydrated, Julienne style potatoes)

Portion: Approx. 41/2 ounces (approx. 2/3 cup).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Potatoes, dehydrated	Pounds 5	Ounces 8	2 gallons	
Water		••••	31/4 gallons	
Milk, liquid, hot			3/4 gallon	
Salt	••••	3	6 tablespoons	
Butter	1	••••	1 pint	

Soak potatoes in water 60 minutes. Cover.

Heat, slowly, to boiling temperature. Let simmer until tender. Drain thoroughly.

Mash potatoes until smooth as possible. Stir in, slowly, milk, salt and butter.

Beat thoroughly. Serve immediately.

NOTE.—1. If cubed style dehydrated potatoes are used, soak 60 minutes.

2. If powdered milk is used, reserve liquid from drained potatoes to reconstitute milk powder.

O'BRIEN POTATOES

Portion: 5 to $5\frac{1}{2}$ ounces (approx. $\frac{2}{3}$ cup).

		100 H		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Potatoes, A.P.	Pounds 44	Ounces		
Salt	••••	3	6 tablespoons	
Peppers, green, chopped fine	1		1 quart	
Pimientos, chopped fine	1	6	1½ pints	
Butter or bacon fat		8	1/2 pint	

Wash, peel and cut potatoes into 3/4-inch cubes.

Cover with cold water. Let stand 1 to $1\frac{1}{2}$ hours. Drain. Dry in a cloth.

Fry in hot deep fat at 350°F. about 4 minutes, or until evenly browned.

Drain on absorbent paper. Sprinkle with salt. Fry pimientos and green peppers in fat about 3 minutes.

Combine potatoes, pimientos and green pep-

pers, just before serving.

Note.—Instead of frying in deep fat, cubed potatoes, chopped green peppers and pimientos may be cooked and browned in moderate oven (350°F.).

Place potatoes, peppers and pimientos in baking pans in a small amount of bacon fat or beef drippings. Turn frequently to insure even cooking and browning. Bake about 30 minutes. Sprinkle with salt.

POTATOES AU GRATIN

(Using dehydrated potatoes)

Portion: Approx. 4½ ounces (approx. ½ cup).

Tuesday		100 F	PORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Potatoes, dehydrated	Pounds 5	Ounces 8	2 gallons	
Water		••••	3½ gallons	
Milk, liquid		••••	1 gallon	
Salt		6	3/4 cup	
Pepper		1/2	13/4 tablespoons	
Cheese, American cheddar, sliced.	2			
Bread crumbs, dry	•	8	1 pint	
Butter	1		1 pint	

Soak potatoes in water 60 minutes. Cover. Heat, slowly, to boiling temperature. Let simmer about 1 hour or until tender. Drain.

Place potatoes in baking pans. Add milk, salt and pepper. Stir well.

Arrange cheese over potatoes. Sprinkle with crumbs. Dot with butter.

Bake in moderate oven (350°F.) about 30 minutes or until a brown crust has formed.

POTATO PUFF

Portion: 4 to 5 ounces.

		100 I		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Milk, liquid	Pounds 	Ounces	32/3 cups	
Potatoes, mashed, hot	32	····	5 gallons	
Egg yolks, beaten	••••	10	15 (1½ cups)	
Butter, melted	1		1 pint	
Salt		4	½ cup	

Heat milk to boiling temperature.

Combine potatoes, milk, egg yolks, $\frac{1}{2}$ pint butter and salt. Beat thoroughly in mixer.

Place in greased baking pans. Brush with remaining melted butter.

Bake in moderate oven (375°F.) until lightly

browned.

Note.—1. Chopped chives, pimientos or green peppers may be added to potatoes before baking, if desired.

2. Grated cheese or paprika may be sprinkled over top of potatoes before browning.

BAKED SWEETPOTATOES

(Using dehydrated sweet potatoes)

Portion: Approx. 4 ounces (approx. ½ cup).

		100 PORTION	Dongvovia	
Ingredients	WEIGHTS	Амо	UNTS (approx.)	Portions
Potatoes, sweet, sliced, de- hydrated. Water	Pounds Our 6	2 galle		
Salt		1 2 table	espoons	
Butter, melted	1 1	2 1¾ pi	nts	

Soak sweet potatoes 45 to 60 minutes. Cover. Heat, slowly, to boiling temperature. Let simmer 35 to 45 minutes or until tender and moist.

Add salt and butter. Stir vigorously to mash. Place in greased baking pan.

Bake in moderate oven (350°F.) 20 minutes.

Note.—1. 1 pound dehydrated sweet potatoes is approximately equivalent to $3\frac{1}{3}$ pounds fresh, unpeeled sweet potatoes or to $2\frac{3}{4}$ to 3 pounds reconstituted sweet potatoes.

2. Avoid dryness when cooking sweet potatoes. Reconstitute to maximum moisture content to obtain moist, finished product.

Variation

Baked Sweet Potatoes with Raisins

Reconstitute sweet potatoes as for Baked Sweet Potatoes.

Drain well. Stir in 2 pounds ($1\frac{1}{2}$ quarts) raisins.

Place in greased baking pans. Sprinkle with 4 pounds (½ gallon) sugar. Dot with butter.

Bake in moderate oven (350°F.) 30 minutes. Note.—1. 3 pounds (3/4 gallon) nuts, chopped coarse, may be used in place of raisins.

2. Dot potatoes with marshmallows, if desired.

MASHED SWEETPOTATOES

Portion: 4 to 5 ounces (approx. $\frac{1}{2}$ cup).

		100 1		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Potatoes, sweet, A.P	Pounds 30	Ounces 		
Milk, liquid, hot		••••		
Salt		2	1/4 cup	
Butter	1	••••	1 pint	
Sugar (may be omitted)		6		

Cook unpeeled sweet potatoes at boiling temperature 30 to 40 minutes or until soft. Drain and peel.

Mash thoroughly in mixer.

Add milk, salt, butter and sugar to potatoes. Beat thoroughly.

MASHED SWEETPOTATOES

(Using dehydrated sweet potatoes)

Portion: Approx. 4 ounces (approx. 1/2 cup).

		100 I		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Potatoes, sweet, sliced, dehydrated.	Pounds 6	Ounces 8	2 gallons	8
Water			3 gallons	
Salt		1	2 tablespoons	
Butter, melted	2	1	1 quart	

Soak sweet potatoes 60 minutes. Cover. Heat, slowly, to boiling temperature.

Let simmer 35 to 45 minutes or until tender

and moist. Drain off surplus water.

Add salt and butter. Mash and beat vigorously until smooth.

SWEETPOTATOES BAKED WITH APPLES

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 F		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Salt	Pounds	Ounces 3	6 tablespoons	
Water	·		To cover	
Potatoes, sweet, A.P	30	••••		
Sugar, brown	3	••••	2¼ quarts	
Apples, tart, A.P.	10			
Butter	1		1 pint	

Add 2 tablespoons salt to water. Heat to boiling temperature. Add potatoes.

Cook 15 to 20 minutes or until half done. Drain. Peel and cut into ½-inch thick slices.

Arrange layer of overlapping slices in greased baking pans.

Sprinkle with remaining salt and 1 quart brown sugar.

Core unpeeled apples and slice. Place layer of apples on top of sweet potatoes. Arrange remaining sweet potatoes and apples in alternate layers.

Sprinkle remaining sugar on top layer. Dot with butter.

Bake in moderate oven (350°F.) 30 to 40 minutes or until apples are tender.

Variation

Sweet Potatoes Baked with Pineapple

Slices or pieces of pineapple may be used in place of apples. Reduce sugar to 1 pound 8 ounces (11/4 quarts).

Portion: 4 to 5 ounces.

		100 F	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Salt	Pounds	Ounces 3	6 tablespoons
Water	****	••••	To cover
Potatoes, sweet, A.P	30		
Sugar, brown	3		2½ quarts
Water, hot			½ gallon
Butter, melted		10	1½ cups

Add 2 tablespoons salt to water. Heat to boiling temperature.

Cook unpeeled sweet potatoes in water about 40 minutes or until soft. Drain. Partially cool.

Peel and cut into ½-inch thick slices. Arrange in greased baking pans.

Make a sirup of sugar, hot water, butter and remaining salt. Pour over potatoes.

Bake in moderate oven (350°F.) about 30 minutes.

Variation

Browned Sweet Potatoes

In place of sirup, sprinkle potatoes with the sugar and salt.

Add bacon fat or melted butter.

Brown in moderate oven (350°F.) about 20 to 30 minutes.

CANDIED SWEETPOTATOES

(Using dehydrated sweet potatoes)

Portion: Approx. 4 ounces (approx. ½ cup).

		100		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Potatoes, sweet, sliced, dehydrated. Water	Pounds 6	Ounces 8	2 gallons	
Sugar	5		2½ quarts	
Salt		1	2 tablespoons	
Butter	1		1 pint	

Soak potatoes in water 45 to 60 minutes. Cover. Heat to boiling temperature.

Let simmer 30 to 45 minutes or until tender. Drain. Leave slices whole. Reserve liquid. Combine sugar, salt and liquid from potatoes.

Heat to boiling temperature. Cook 5 minutes. Place sweet potatoes in greased baking pans. Pour sirup over potatoes. Dot with butter. Bake in moderate oven (350°F.) about 30 minutes.

Portion: 5 to 6 ounces (approx. 2/3 cup).

		100 P	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Rice, uncooked	Pounds 5	Ounces 8	23/4 quarts
Beef drippings or bacon fat	2		1 pint
Bacon, diced		8	½ pint
Onions, diced	2		1½ quarts
Peppers, green, diced	2		½ gallon
Tomatoes	12	12	2 No. 10 cans (6½
Chili powder		1/2	quarts). 2½ tablespoons
Salt		4	½ cup
Sugar		3	6 tablespoons
Pepper			1 teaspoon
Meat Stock (page 251)	ı 🗆	••••	2 to 2½ gallons

Wash rice thoroughly. Drain well.

Brown the rice in drippings or bacon fat until golden brown.

Fry together bacon, onions and green peppers. Add tomatoes, chili powder, salt, sugar

and pepper. Cook 10 minutes.

Pour mixture over rice. Add part of stock.

Cook about 20 minutes or until rice is tender, adding more stock as mixture thickens.

Bake in slow oven (325°F.) about 15 minutes.

SAUERKRAUT

Portion: 4 to 5 ounces (approx. $\frac{2}{3}$ cup).

T		100 I		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Sauerkraut	Pounds Ounces 31		5 No. 10 cans (4 gallons). 1 pint	

Heat sauerkraut in liquid from cans and add bacon fat.

Note.—Diced bologna or sliced frankfurters may be added to sauerkraut.

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 P	PORTIONS	
Ingredients	WEIGHTS		Amounts (approx.)	FORTIONS
Beans, lima, dried	Pounds 4	Ounces 8	¾ gallon	
Water, cold	****		To cover	
Water, boiling			1 gallon	
Corn, whole kernel	19	14		E-E-
Sugar		2	quarts). 1/4 cup	
Salt		21/2	5 tablespoons	
Onion juice		2	1/4 cup	
Paprika			½ teaspoon	
Butter	1		1 pint	

Pick over and wash lima beans thoroughly. Soak in cold water about 6 hours.

Do not drain. Add boiling water to cover.

Let simmer about 1 hour until tender, but not mushy. Drain.

Combine corn and beans. Add sugar, salt,

onion juice, paprika and butter. Reheat.

NOTE.—1. 10 pounds fresh lima beans may be used in place of dried beans.

2. Chopped, sweet red or green peppers add flavor and color. If chopped pepper is used, omit paprika.

BAKED ACORN SQUASH

Portion: 1/2 squash.

Ingredients		100 F	Portions	
INGREDIENTS	WEIGHTS			AMOUNTS (approx.)
Squash, acorn, medium-sized, A.P.	Pounds 40	Ounces 	50	
Salt		4	½ cup	
Butter or bacon fat, melted	1		1 pint	
Sugar, brown	1		1½ pints	

Wash and prepare squash. Cut in half.

Remove fibers and seeds. Arrange uncooked halves open side up, in baking pans. Add enough water to cover bottom of pans.

Sprinkle with salt. Bake in moderate oven (350° F.) about 25 minutes or until half done. Brush halves with butter. Sprinkle with sugar. Bake about 25 minutes or until tender.

Portion: Approx. 41/2 ounces.

		100 F	PORTIONS
Ingredients	WEI	GHTS	Amounts (approx.) Portions
Squash, Hubbard, A.P	Pounds 33	Ounce s 	
Water, boiling		••••	To cover
Butter, melted	1	••••	1 pint
Salt		3	6 tablespoons
Pepper			1 teaspoon

Cook squash in boiling water about 10 minutes to soften skin. Drain.

Cut in half, remove seeds and peel. Cut into $4\frac{1}{2}$ -ounce pieces.

Arrange in greased baking pans. Brush with butter.

Sprinkle with salt and pepper.

Bake in moderate oven (350°F.) about 1 hour or until tender.

Variation

Mashed Hubbard Squash

Cook squash in boiling water or in steamer about 10 minutes to soften skin. Drain.

Cut in half. Remove seeds. Peel.

Cook in small amount of boiling water or steam until soft. Mash in mixer.

Add salt, pepper and butter.

NOTE.—If mixture is quite moist, place in greased pans, brush with butter and bake in moderate oven (350°F.) ½ to 1 hour.

BUTTERED SUMMER SQUASH

Portion: 4 ounces (approx. 2/3 cup).

		100 P	PORTIONS
INGREDIENTS	INGREDIENTS WEIGHTS		Amounts (approx.)
Squash, summer, A. P	Pounds 26	Ounces 	
Water, boiling		****	To cover bottom of pan
Onions, chopped	1		1½ pints
Butter or other fat	1		1 pint
Sugar	••••	2	1/4 cup
Salt		3	6 tablespoons
Pepper	••••	****	1 teaspoon
Paprika	••••		To garnish

Wash, trim and peel squash. Slice or dice.

Cook in small amount of water about 20 minutes or until tender.

Fry onions until lightly browned. Add to squash.

Add sugar, salt and pepper. Garnish with paprika.

Note.—Squash can be peeled in potato peeling machine. Very young tender squash need not be peeled.

ESCALLOPED TOMATOES

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 P		
Ingredients	WEIG	GHTS	Amounts (approx.)	Portions
Tomatoes	Pounds 25	Ounces 8	4 No. 10 cans (31/4 gallons).	
Sugar		8		
Salt		2	½ cup	
Pepper		F E 1	1 teaspoon	<u>, , , , , , , , , , , , , , , , , , , </u>
Onions, minced		4	³ / ₄ cup	
Bread, broken or cubed	5		2½ gallons	
Butter or other fat, melted	1		1 pint	

Heat tomatoes with sugar, salt, pepper and onions.

Combine bread cubes and fat. Brown lightly in moderate oven (375°F.).

Arrange alternate layers of bread and tomatoes in greased baking pans. Bottom and top

layers should be bread.

Bake in moderate oven (375°F.) 30 to 45 minutes.

Note.—Cooked celery, corn, cauliflower or onions may be used in place of part of tomatoes.

GRILLED TOMATOES

Portion: 2 halves.

		100 H		
INGREDIENTS	WEIGHTS		Amounts (approx.)	Portions
Tomatoes, A.P.	Pounds 30	Ounces 	100	
French Dressing (page 239)	1	14	1 quart	

Wash tomatoes. Remove stem end. Do not peel.

Cut in halves, crosswise. Arrange, cut side up, in greased baking pans. Brush with French dressing.

Broil or bake in moderate oven (375°F.) 10 to 15 minutes, or until well heated through, but not soft.

BAKED STUFFED TOMATOES

Portion: 1 tomato.

		100 F	PORTIONS	
Ingredients	WEIGHTS		AMOUNTS (approx.)	
Tomatoes, A.P.	Pounds 30	Ounces	100	
FILLING				
Peppers, green, chopped	1	••••	1 quart	•••••
Onions, chopped		8	3/4 pint	
Bacon or ham, chopped	2		1½ pints	
Butter or other fat	1	••••	1 pint	
Bread, chopped	3	••••	1½ gallons	
Salt		11/2	3 tablespoons	
Pepper			1 teaspoon	
Tomato pulp			½ gallon	

Wash tomatoes. Remove stem end and scoop out centers. Reserve pulp.

Fry green peppers and onions with bacon or ham in fat.

Combine with bread, salt, pepper and tomato

pulp. Fill tomatoes with mixture.

Bake in moderate oven (350°F.) about 30 minutes or until tomatoes are tender but not soft.

STEWED TOMATOES

Portion: 4 ounces (approx. 2/3 cup).

		100 P	ORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Onion, chopped	Pounds	Ounces 4	3/4 cup
Sugar	1		1 pint
Salt	••••	4	1/2 cup
Fat		8	1 cup
Bread, cubed	1	10	1 gallon
Tomatoes	25	8	4 No. 10 cans (31/4 gallons).

Add onion, sugar, salt, fat and bread to tomatoes.

Heat and let simmer 20 to 30 minutes.

Note.—1. Onion may be omitted.

2. Toasted buttered bread cubes add flavor and body to tomatoes. Add to tomatoes just before serving.

Variations

Stewed Tomatoes and Celery

Heat 3 No. 10 cans $(2\frac{1}{2} \text{ gallons})$ tomatoes to boiling temperature. Add 10 pounds cooked celery, 2 ounces $(\frac{1}{4} \text{ cup})$ salt, and 1 teaspoon pepper. Reheat.

Stewed Tomatoes and Corn

Combine 3 No. 10 cans (21/2 gallons) toma-

toes with 2 No. 10 cans (6½ quarts) whole kernel corn, drained.

Add 4 ounces (½ cup) salt. Heat to boiling temperature.

Stewed Tomatoes and Hominy

Combine 3 No. 10 cans $(2\frac{1}{2}$ gallons) to-matoes with 2 No. 10 cans $(6\frac{1}{2}$ quarts) hominy, drained. Add 4 ounces $(\frac{1}{2}$ cup) salt. Heat to boiling temperature.

Stewed Tomatoes and Onions

Heat 3 No. 10 cans $(2\frac{1}{2} \text{ gallons})$ tomatoes to boiling temperature. Add 5 pounds (1 gallon) cooked onions, quartered or sliced. Add 4 ounces $(\frac{1}{2} \text{ cup})$ salt. Reheat.

BUTTERED RUTABAGAS

(Swedish turnips)

Portion: 4 ounces (approx. $\frac{2}{3}$ cup).

Tarangana		100 H	PORTIONS
Ingredients	WEIGHTS		AMOUNTS (approx.)
Rutabagas, A.P.	Pounds · 33	Ounces 	•••••
Salt	••••	3	6 tablespoons
Water	****	****	To cover
Pepper, white			1 teaspoon
Sugar	•	4	½ cup
Butter, melted		12	3/4. pint

Wash and peel rutabagas. Cut into small cubes.

Add salt to water. Heat to boiling temperature. Add rutabagas.

Cook about 30 minutes or until tender. Drain. Sprinkle with pepper and sugar. Add butter.

Note.—30 pounds A.P. white turnips may be used in place of 33 pounds rutabagas.

Variations

Creamed White Turnips

Place cooked, drained turnip cubes in serving pans.

Sprinkle with sugar and pepper.

Pour ½ gallon hot Medium Cream Sauce (page 208).over turnips.

Garnish with chopped parsley or chives, if desired.

Mashed Rutabagas or Turnips

Cook rutabagas or turnips in boiling salted water until tender. Drain.

Mash in mixer, using heavy whip.

Add pepper, sugar, butter and $1\frac{1}{2}$ cups liquid milk. Mix thoroughly.

TURNIPS (RUTABAGAS) WITH BACON

(Using dehydrated turnips)

Portion: Approx. 3 ounces (1/2 to 2/3 cup).

	11 = 18	100		
Ingredients	WEIGHTS		AMOUNTS (approx.)	Portions
Turnips, dehydrated	Pounds 3	Ounces 8	11/4 gallons	
Water			2½ gallons	
Salt		3	6 tablespoons	
Pepper			1½ tablespoons	
Bacon, diced	2	4	1 quart	

Soak turnips in water 45 to 60 minutes. Cover. Heat, slowly, to boiling temperature, about 35 minutes.

Let simmer about 10 minutes or until turnips are tender.

Remove from heat. Drain. Add salt and pepper.

Fry bacon until lightly browned. Add to

turnips. Mix well.

Note.—Turnips may be reconstituted, then placed in baking pans with strips of bacon placed on top. Sprinkle with ¼ pound (½ cup) sugar. Bake in moderate oven (350° F.) about 20 minutes, turning bacon to brown evenly on both sides.

BAKED TURNIPS AND POTATOES

(Using dehydrated turnips and potatoes)

Portion: Approx. 3½ ounces (approx. ½ cup).

		100	Portions	
Ingredients	WEIGHTS			Amounts (approx.)
Turnips, dehydrated	Pounds 1	Ounces 8	2½ quarts	
Water (for turnips)			1¼ gallons	
Potatoes, dehydrated	4		1½ gallons	••••••
Water (for potatoes)	J		21/4 gallons	
Salt		6	3/4 cup	
Pepper		1	3½ tablespoons	
Bacon, sliced	3			

Soak turnips in water 45 to 60 minutes. Cover. Heat to boiling temperature.

Let simmer 25 to 30 minutes. Drain. Reserve liquid for soups.

Soak potatoes in water 40 minutes. Heat to boiling temperature.

Let simmer 25 to 30 minutes. Drain. Reserve liquid for soups.

Combine turnips and potatoes. Stir in salt and pepper.

Place in greased baking pans. Place bacon slices over top.

Bake in moderate oven (350°F.) about 20 minutes, turning bacon to brown evenly on both sides.

CURRIED MIXED VEGETABLES

Portion: 4 to 5 ounces (approx. 2/3 cup).

		100 F		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	Portions
Peas	Pou ds	Ounces 9	1 No. 10 can (31/4 quarts).	
Beans, green		5	quarts).	
Corn	6	10	1 No. 10 can (31/ ₄	
Carrots, diced, cooked	5		quarts). 3¾ quarts	
Celery, diced, cooked	4		1 gallon	
Onions, chopped	5	8	1 gallon	
Butter or other fat		4	½ cup	
Cream Sauce (page 208)			2 gallons	
Curry powder	-	1/2	2 teaspoons	

Drain peas, beans and mushrooms. Reserve liquor for sauce.

Combine peas, beans, mushrooms, corn, carrots, and celery. Heat to boiling temperature.

Fry mushrooms and onions in fat.

Use mushroom liquor and part of vegetable liquor to make Cream Sauce.

Combine ingredients, except curry, with cream sauce.

Add curry powder just before serving.

Note.—1. $2\frac{1}{2}$ pounds $(1\frac{1}{2}$ quarts) of cooked lima beans may be used in place of green beans.

2. Mushrooms may be omitted if desired.

VEGETABLE PIE

Portion: 6 ounces (approx. 3/4 cup).

	100 PORTIONS			
Ingredients	WEIGHTS AMOUNTS (approx.)		Portions	
Tomatoes Meat Stock (page 251)	Pounds 6	Ounces 6	1 No. 10 can (3½ quarts). 1½ gallons	
Salt		4		
Sugar		2	1/4 cup	
Onions, chopped	1		1½ pints	
Beef drippings	3		1½ quarts	
Flour	1		1 quart	
Carrots, cooked, diced	6		4½ quarts	
Potatoes, cooked, diced	9	••••	5½ quarts	
Celery, cooked, diced	5		11/4 gallons	
Peas Biscuits (page 361)	6	9	quarts).	

Combine tomatoes and stock. Add salt and sugar. Heat to boiling temperature.

Fry onions in drippings until lightly browned. Add flour and blend.

Stir onion-flour mixture into tomatoes. Add carrots, potatoes, celery and peas.

Fill greased baking pans with mixture. Place in oven and heat. When hot, place biscuits on top.

Bake in hot oven (425°F.) 15 minutes or until biscuits are done.

Baking

Information and Formulas

The bakery formulas have been developed and tested by Navy personnel for use by Navy bakers.

Bake shop equipment, Navy food issues, principles of nutrition and the latest developments in the bakery field have been taken into con-

sideration in the selection of these formulas.

The introductory material in the various chapters of the bakery section and the notes accompanying the formulas contain pertinent and valuable information. These should be carefully read before the formulas are used.

INGREDIENTS

Flour

Functions of Flour in Baking: In addition to the food value of flour in baked goods, flour is important in forming structure to support other ingredients.

Types of Flour:

- 1. Hard Wheat Flour
- 2. Soft Wheat Flour

Hard wheat flour is characterized by its relatively high protein content. Soft wheat flour contains relatively lower amounts of protein. Both hard wheat and soft wheat flours are further classified into:

Plain flour Enriched flour

Plain flour is flour milled in the regular way. Enriched flour has been enriched by the addition of:

Thiamine (Vitamin B₁) Niacin or Niacin Amide

Iron

Riboflavin (Vitamin G) is added in some cases

Hard Wheat Flour: Hard wheat flour is used chiefly for making bread, rolls, Danish pastry and coffee cakes. It may be used for all general baking purposes provided suitable formulas, properly balanced for hard wheat flour are used.

Soft Wheat Flour: Soft wheat flour is used in production of cakes, cookies, pies and doughnuts. It is unsuitable for bread, rolls and other baked goods of that type because of insufficient protein to form dough structure.

Navy Issue Flour: Navy issue flour is enriched hard wheat flour. Formulas in the bakery section have been developed and tested with Navy issue flour.

Milk

Functions of Milk in Baking: Milk is used in bakery products to

Contribute to color of crust in such products as bread, rolls, doughnuts and cakes

Add moisture

Add richness

Add food value

Types of Milk: Milk in any of the following forms may be used in baking:

- 1. Liquid skim milk
- 2. Liquid whole milk
- 3. Powdered skim milk
- 4. Powdered whole milk
- 5. Evaporated milk
- 6. Sour milk
- 7. Buttermilk

Milk in any of the forms listed above, except sour and buttermilk, can be used interchangeably provided powdered or evaporated milk are properly reconstituted to give equivalents in milk solids content to milk specified in the formula. Directions for reconstituting powdered and evaporated milk are given on page (21).

When sour milk or buttermilk is used, the acidity of the milk is balanced with soda. Normally, $\frac{1}{4}$ ounce ($\frac{1}{2}$ teaspoons) of soda per quart of sour milk or buttermilk will neutralize

the acidity. Carbon dioxide gas is liberated in this process. Therefore, when sour milk or buttermilk are used with soda in a formula, their leavening effect must be taken into consideration, and the baking powder or other leavening ingredients in the formula reduced.

One quart of buttermilk or sour milk with $\frac{1}{4}$ ounce soda has the leavening power of approximately $\frac{1}{2}$ ounce baking powder.

Handling Milk Products: Reconstituted evaporated or powdered milk is perishable and will spoil when held in warm temperatures, 70° F. or above. Place milk in refrigerator until ready to use.

Fresh liquid milk is perishable and should not stand in warm temperatures. It should be used immediately after removal from refrigerator.

Eggs

Functions of Eggs: Eggs are used in bakery products to

Add color

Add moisture

Add richness

Act as leavening agent (for sponge cake, angel food cake, and cream puffs)

Add food value (protein and fat)

Types of Eggs: Eggs fresh, frozen, or powdered can be used in the formulas in this book. The following types may be available:

- 1. Fresh shell eggs
- 2. Fresh egg yolks
- 3. Fresh egg whites
- 4. Frozen whole eggs
- 5. Frozen egg yolks
- 6. Frozen egg whites
- 7. Powdered whole eggs
- 8. Powdered egg yolks
- 9. Powdered egg whites

Powdered eggs must be reconstituted with cold water before using. For directions see page 20. Each formula in this section requiring eggs gives exact instructions on using powdered eggs in place of fresh or frozen eggs.

Handling Egg Products: Fresh eggs, reconstituted powdered eggs, or frozen eggs are perishable when held at normal temperatures for any length of time. Eggs should be used within 3 or 4 hours after they have been held at temperatures of 70° F. to 80° F.

Shortening

Functions of Shortening: Shortening is used in bakery products to

Produce tenderness
Improve eating and keeping qualities
Help produce better grain and texture
Add richness
Add food value

In yeast-raised bakery products such as bread, rolls and sweet doughs, shortening has the added function of lubricating the gluten in the flour developed during mixing, making it soft and pliable.

Shortening also helps emulsify and carry the moisture in yeast doughs, cake batters and icing.

Types of Shortening: Shortenings are edible fats and oils of animal or vegetable origin.

Oils: Shortenings which are fluid at ordinary temperatures are called oils.

Fats: Those which are solid are called fats. Fats which are plastic at ordinary temperatures are used in the preparation of bakery products. Oils are occasionally used in bread but are most generally used in the manufacture of mayonnaise, salad dressings and to some extent for frying purposes.

Shortenings may be classified as follows:

- 1. Lard
- 2. Pure vegetable shortening
- 3. Mixed animal and vegetable shortening

Any type of shortening may be used in these formulas. Type No. 2 is standard Navy issue shortening. Formulas in the bakery section were developed and tested with Type No. 2.

Sugar

Functions of Sugar: Granulated, powdered and brown sugar are standard Navy issue ingredients. Their functions are to

Improve flavor

Act as a shortener or tenderizer

Contribute to the development of grain and texture

Add richness

Furnish food value in form of carbohydrates

Improve keeping quality when added in form of sirup

Types of Sugar: Sugar is supplied in the form of

- 1. Granulated sugar
- 2. Confectioners' sugar
- 3. Brown sugar
- 4. Sugar sirups (malt, molasses, honey, corn sirup, invert sirup)

Sugar Sirups: Sugar sirups may or may not be available. Their functions are the same as for other sugar. In addition, corn sirup and invert sirup improve the keeping quality of products in which they are used. For example, the addition of corn sirup or honey to cookie dough helps produce cookies which retain their moisture and keep soft and fresh for a long period. Keeping qualities are not important from the Navy point of view because most foods produced in the galley are consumed within a few hours after preparation.

Sugar sirups are necessary in some specific types of products. For example, ginger bread contains only molasses as the sweetening and flavoring ingredient. Similarly, pecan pie is a special product made with only corn sirup, which gives the finished pie its characteristic eating quality. These, however, are isolated cases, and it is possible to make almost all bakery products without using sugar sirups.

When available and deemed necessary to use them, sirups can be used in amounts up to about 10% of sugar weight specified in the formula.

Baking Powder

Baking powder is a leavening agent produced by the mixture of an acid-reacting ingredient with an alkali-reacting one. These baking acids are tartrate, phosphates, and sodium aluminum sulphate, used alone, or in combination.

By the action of moisture and heat they liberate carbon dioxide gas which causes doughs and batters to "rise." All types of baking powders release not less than 12 per cent available carbon dioxide.

Types of Baking Powder: Package labels indicate the composition of the baking powder. The commonly used types are:

- 1. Tartrate base baking powder
- 2. Phosphate base baking powder
- 3. Sodium aluminum sulphate and phosphate combination base baking powder

4. Sodium acid pyrophosphate base baking powder

There is a difference in the rate of reactions of the different types of baking powder.

Type No. 1. Tartrate base baking powder starts releasing carbon dioxide gas as soon as it comes in contact with moisture. Baked goods made with tartrate base baking powders should be baked almost immediately after making up.

Type No. 2. Phosphate base baking powders are somewhat slower acting than Type No. 1 but more rapid than Types No. 3 and No. 4.

Type No. 3. Aluminum base baking powders are slower acting. They depend upon heat as well as upon moisture for releasing their full amount of carbon dioxide.

Type No. 4. Sodium acid pyrophosphate is a type baking powder, particularly manufactured for use in large quantity baking. It is a slow acting baking powder and releases carbon dioxide gas primarily in the presence of heat.

Formulas in this section have been developed and tested with. Type No. 3 combination baking powder.

Yeast

Functions of Yeast: Yeast is used in bakery products to

Make a light porous dough Condition the dough batch

Types of Yeast: The following types of yeast are used by the Navy:

- 1. Compressed yeast
- 2. Active dry yeast
- 3. Dry yeast in cake form

Compressed Yeast: Compressed yeast is supplied in 1-pound units approximately the size of 1-pound print of butter and in ½-ounce cakes.

Compressed yeast will keep its full baking strength about 2 weeks when held at a temperature of not higher than 40° F. If compressed yeast is to be kept longer than 2 weeks, it must be fresh and in excellent condition and frozen at 20° F. or lower until used. Before using, slowly thaw yeast by holding in refrigerator at a temperature of about 40° F.

The amount used in yeast-raised goods varies from about 1% (1 pound of yeast per 100 pounds of flour) in lean bread doughs to as much as 11% (11 pounds per 100 pounds of flour) in rich coffee cake and Danish pastry

doughs. Richer doughs require more yeast to properly leaven or raise the dough. Normally, bread requires about 2% (2 pounds per 100 pounds of flour).

Add compressed yeast to dough by breaking it into small pieces and mixing or dissolving it thoroughly in part of the water used in doughs. Incorporate the yeast solution along with other ingredients. Yeast solutions should not be brought in contact with relatively high strength salt solutions.

Active Dry Yeast. Active dry yeast is usually supplied in small pellets or spheres. It may also be supplied in flakes or short rod-like pieces.

Active dry yeast is yeast in which the moisture content has been reduced to not more than 8%. In the drying process some of the yeast cells are killed and the balance are made inactive. The net result is an inactive yeast, with approximately double the amount of live but inactive dry yeast cells, as are present in compressed yeast.

Dried yeast functions in yeast-raised doughs exactly as compressed yeast. Half as much as the specified amount of compressed yeast is used. For example, a bread formula calling for 2 pounds of compressed yeast requires 1 pound of active dry yeast.

How to "Reactivate": It is necessary to "reactivate" the yeast before adding it to the dough mix. This is accomplished as follows:

Dissolve required quantity of yeast in lukewarm water (70° F. to 80° F.).

Add small amount of sugar to furnish food for yeast cells.

Allow mixture to stand at temperatures of 70° F. to 75° F. for 45 to 60 minutes. This step is usually termed "pre-treatment" of yeast.

Quantities of sugar and water used in pretreatment are subtracted from the dough formula. Usual quantities for "pre-treatment" are as follows:

Yeast—5 parts, by weight Sugar—1 part, by weight Water—35 parts, by weight

Example: Bread formula calls for 2 pounds compressed yeast.

Active dry yeast—1 pound Sugar—3 ounces Water, warm—7 pounds (3½ quarts) Dissolve ingredients in warm water and allow to remain in warm place, 70° F. to 75° F., for 45 to 60 minutes. Occasional stirring aids reactivation. Add to the dough mix in the same manner as compressed yeast. Deduct the 3 ounces sugar and 7 pounds (3½ quarts) water from quantities specified in formula.

Storage: Long periods of storage, or more particularly, high temperature storage, kills the inactive yeast cells in dried yeast as the following table shows.

Results

Storage Temperature:

Active dry yeast can be frozen without ill effect, providing it is thawed slowly at a temperature of 40° F. to 50° F.

Use the following procedure to handle dried yeast which has been injured by adverse storage conditions:

Increase "pre-treatment" time from 1 hour to 2 hours, or longer. This longer period allows the dormant cells to grow and "bud" or to create new active cells.

"Fermenting time" and/or "proof time" of the finished dough may be lengthened so that required rise is obtained.

Adjustments in the procedure can best be determined by actual practice and depend on the condition of the yeast.

It is not desirable to increase the quantity of dried yeast in order to compensate for loss in leavening power. Dried yeast contains, in relatively small quantities, enzymes which affect the protein in the flour. If the quantities of these enzymes are too high, a sticky dough with lessened structure-building properties is ob-

tained. When yeast shows decreased leavening power, do not increase the yeast quantities.

To extend the quantities of yeast on hand, the weight of yeast used can be decreased somewhat, and the pre-treating period lengthened. This permits new yeast cells to grow, which increases the fermenting power of the yeast.

Dry Yeast Mixed with Cereals: Dry yeast (cake form) with cereals is a mixture of yeast and cereals pressed into cakes weighing about 2 ounces each. Half as much as the specified amount of compressed yeast is used. Quantities and dough mixing are similar. However, from 12 to 20 hours are required to produce good bread. Fermentation times are considerably lengthened.

Keeping Qualities: Dry yeast with cereals has very good keeping qualities. It maintains satisfactory baking qualities for approximately 1 year when held at temperatures between 65° F. and 70° F.

Activating: The "activation" or "pre-treatment" period described for granular dried yeast may also be applied to dry cake yeast to speed up yeast activity. A pre-treatment of from 1 to 2 hours in dilute sugar solution is helpful.

EMERGENCY SPONGE METHOD

Use when the supply of granular dehydrated yeast (active dry yeast) is limited or has lost its strength due to improper storage.

This method of bread making can be used for any size dough batch on a continuous production basis.

Ingredients	100-POUND FLOUR BASIS	42-POUND FLOUR BASIS
SPONGE Flour Water Active dry yeast Sugar Salt	50 lbs	21 lbs. 11 lbs. 1 oz. 3 oz. 1½ oz.
DOUGH Flour	2 lbs. 8 oz 1 lb. 12 oz	21 lbs. 15/8 gals. 1 lb. 10 oz. 13 oz.

Sponge.—Mix and allow to ferment for 12 hours at $82^{\circ}F$. to $84^{\circ}F$.

Dough.—Mix fermented sponge with dough ingredients at a temperature of 84°F.

Allow to rise 1 hour.

Scale, pan, and proof for approximately 1 hour or to desired height.

Bake in usual manner.

Pan Grease

Pan grease, while not actually an ingredient, is a prerequisite for good baking and is therefore included in this section.

The proper use of pan grease will eliminate waste through a reduction in cripples and

breakage. Grease suitable for various kinds of bakery products are listed in the following tables.

Over-greased pans may produce poor volume in cakes, cookies with excessive spread and bread with greasy crust. Use only enough pan grease to cover suface of baking pan.

Table I.—PAN GREASE FOR CAKES

	No. 1	No. 2				
Ingredients	For HAND GREASING (Using brush)	FOR MECHANICAL GREASING (Using machine)				
Flour Shortening Salad oil	10 pounds 20 pounds					
METHOD	Whip very light	Melt shortening. Mix with oil and flour. Use warm.				

Table II.—PAN GREASE FOR BREAD AND ROLLS

	No. 1	No. 2	No. 3
Ingredients	For Hand Greasing (Using cloth)	For Spray Greasing	FOR MECHANICAL GREASING (Using brush)
	2 pounds (1 quart)	2 pounds (1 quart)	
METHOD	Whip together	Whip together shortening	
		and hot water. Add salad oil.	

Table III .- PAN GREASE FOR COOKIES, COFFEE CAKES, ETC.

Note.—Use pan grease No. 1, Table I, for these types of bakery products.

Baking Terms

Bench Tolerance: The property of dough to

ferment at a rate slow enough to prevent over-fermentation while dough is being made up into units on the

bench.

Blending: Combining or thorough mix-

ing of ingredients in making

a food product.

Bun Press: A mechanical press which takes a large piece of dough

and cuts it into 36 pieces suitable for making up into buns, rolls or similar products. Usually a 36-ounce piece of dough is used, which yields 36 pieces each weigh-

ing 1 ounce.

Creaming: Mixing until smooth, sugar,

shortening and other ingredients to incorporate air so that resultant mixture is thoroughly blended and increases appreciably in vol-

ume.

Cripple: A misshapen, burnt or other-

wise undesirable product.

Crusting: Formation of dough crust on

surface of doughs due to evaporation of water from

the surface.

Docking: Punching a number of impressions in a dough with a

smooth round stick about the size of a pencil or with fingers. Docking is done so that doughs expand uniformly

during baking.

Emulsification: The process of blending together fat and water or water solutions of ingredi-

ents to produce a stable mixture which will not separate

on standing.

Fat Absorption: Fat which is absorbed in

food products as they are

fried in deep fat.

Fermentation,
Primary:

Time given to dough between mixing and punching, during which yeast grows,

generating carbon dioxide gas which causes dough to

expand.

Flaky Pie Crust: Pie crust made by leaving

lumps of shortening in the dough which, as the dough is rolled out, form layers of fat to give a flaky effect to fin-

ished crust.

Floured Bench: Sprinkling flour on bench

surface to prevent dough

from sticking.

Function: Reason for the use of ingre-

dients or procedures in bak-

ing.

Fondant: A mixture of sugar, water

and corn sirup which is cooked to 240° F., grained or

crystallized and beaten smooth. Fondant is used for

icings and in making candy.

Gluten:

The essential constituent of flour, which is primarily re-

sponsible for producing elasticity in dough. The elasticity enables the dough to

retain the fermentation

gases.

Graining:

g: After boiling a sugar solution to the desired tempera-

ture the solution will crystallize upon cooling. If cooling is slow, large crystals will

form. Rapid cooling produces small crystals as will rapid mixing during cooling. Small fine crystals are de-

sired in making fondant and this is accomplished by cool-

ing and mixing. This process

is termed "graining".

Leavening:

The raising or lightening of a batter or dough by the use of baking powder (chemical ingredients) or yeast.

Make-Up:

The process of forming a dough or batter into specified units. For example, forming a yeast dough into cinnamon rolls, or cutting cookies from a cookie dough.

Mealy Pie Crust: Pie crust made by thoroughly blending together flour and shortening so that a short tender crust is obtained.

Molding:

Forming bread or sweet veast doughs into loaves or units of desired size and shape.

"Old" Doughs:

Yeast dough which has become over-fermented due to long fermentation. This produces finished yeast goods dark in color, sour in flavor, low in volume, coarse in grain and rough in texture.

Plasticity:

The consistency or "feel" of a shortening.

Proof Time:

The secondary fermentation period given to dough between make-up and baking, for the purpose of permitting further yeast growth. This in turn causes the dough to rise, giving a light finished product.

Punching Doughs:

The process of knocking out of yeast dough the gas formed during the primary fermentation period.

Quick Breads:

Biscuits, muffins, and breadlike products in which baking powder is used for leavening.

Rounding Up:

Forming bread or sweet veast doughs into round balls of the desired size for later molding into the finished units.

Scaling:

Weighing of ingredients, doughs or batters into units of desired amount.

Stabilizers:

Commercial preparations sold for use in meringue, pie fillings and marshmallows. If used, follow package directions.

Starch Water:

A mixture of cornstarch and water made by boiling together 1 or 2 tablespoons of cornstarch with 1 quart of water. This is used for brushing on bread to give a shine to the crust.

Trough:

Pan or container for holding dough.

Usage:

Method of using baked goods.

Washing Down:

In boiling a sugar solution, crystals form on the sides of the container. A brush dipped in water can be used to wash these crystals back into the boiling sugar solution. This helps to produce a uniform sirup.

Water Absorption:

Water required to produce a bread dough of desired consistency. Flours vary in ability to absorb water. This depends on age of flour, moisture content, wheat from which it is milled, storage conditions and milling process. Navy issue flour normally absorbs water from 60 to 65 per cent of its weight.

Weak Egg Whites:

Egg whites which are old or do not have sufficient structural forming solids for beating.

"Young" Doughs: Yeast dough which is underfermented. This produces finished yeast goods which are light in color, tight in texture and low in volume (heavy).

Formulas - Baking

Yeast Breads

Production Pointers

Mixing

Three purposes of dough mixing are:

To bring about an intimate and uniform mixture of the ingredients to form a smooth dough.

To make possible the complete wetting of the flour and to develop the dough mechanically so that it becomes pliable and extensible.

To distribute the yeast cells throughout the dough.

Two standard methods of dough mixing are:

1. The Straight-Dough Method: In this method all the ingredients are mixed in one operation. The ordinary sequence is as follows:

Dissolve yeast in part of the water at 78° F. to 80° F.

Pour remaining water into mixer. Add salt, sugar, and milk.

Dissolve these ingredients by a few turns of the mixer arms.

Stir in yeast solution, OR

Add flour and yeast solution.

Mix dough about 1 minute. Add shortening and mix to completion.

2. The Sponge-Dough Method: This is a two-stage mixing process. Ordinary sequence is as follows:

Mix together 55% to 70% of the flour, 55% to 65% of the water and all of the yeast to form the "sponge."

After the sponge has risen for the desired length of time, put it back into the mixer and mix together with remaining flour, water, malt, sugar, salt, milk and shortening.

Formulas in the bakery section of the Navy Cook Book are based on the straight-dough method.

Fermentation

Place mixed dough in a trough which has been lightly greased. The sides of the dough should be pulled over so that the top is smooth. If standard troughs are used, straight doughs require 2 feet of trough length for each 100 pounds of flour used. Sponge doughs require 2 feet for each 50 pounds of flour used.

Dough temperatures: It is important that doughs should be set from 77° F. to 80° F. whenever possible. Low temperatures slow up yeast action. High temperatures make the

dough difficult to handle. They may also cause the development of undesirable bacteria, such as rope, wild yeasts, and excessive acidity which tends to weaken the gluten, resulting in a coarse-grained loaf of poor flavor. Doughs set from 77° F. to 80° F. will produce bread having better flavor and keeping quality and whiter crumb color than bread made from warmer doughs.

Punching or turning and folding: A straight dough is allowed to rise until light, until it will just recede when the fingers are pushed down about 4 inches and quickly withdrawn. The dough is then "punched," or turned and folded.

A straight dough made with 2 per cent yeast will be ready for the "punch" in about 2 to $2\frac{1}{2}$ hours. Dough is allowed to loosen up for about 20 minutes before making up.

The final maturity and, consequently, the quality of the bread, depends largely on the time the dough is punched. It is important that the time be gauged carefully.

Dividing and scaling: Divide dough either by hand on the bench, or by machine.

In hand dividing, each piece of dough should be scaled. In machine operation, only an occasional scaling is necessary as the dough pieces come from the divider. Under normal conditions, in making white pan bread a pound loaf will be produced from 18 to 18½ ounces of dough.

Rounding: Each piece is rounded or balled up so as to seal the cuts made in dividing.

Intermediate proof: The rounded pieces of dough are allowed to rest for 10 to 15 minutes. They should be covered and kept free from drafts so as to prevent drying out and crusting.

Molding: After the intermediate proof, mold the pieces into loaves, using as little dusting flour as possible.

Panning: Pans should be lightly greased. Only enough grease should be used to prevent loaves from sticking to the pan. Excess grease is not only wasteful but it causes the loaf to fry in the oven instead of baking properly.

Place each piece of dough so that the molding seam faces the bottom of the pan. The dough loaves should be long enough to reach the ends of the pan. Bread pans should always be kept clean. Wipe clean with a dry cloth after each baking. At frequent intervals, wash the pans in a *dilute solution* of washing soda or tri-sodium phosphate using 2 ounces per gallon of water.

Pan proofing: Time, temperature and humidity: Since the molding process compresses each piece of dough, thereby expelling a large amount of the gas, it is necessary for the dough loaves to rise to the proper degree of lightness before baking. This is known as "proofing."

It is important to control proofing time, temperature and humidity. An underproofed dough will produce bread of small volume which will be soggy and heavy. Overproofing weakens the structure of the dough, and if excessive, may cause the loaf to drop. The resulting bread will be irregular in shape, small in volume and coarse in grain and texture.

The proofing cabinet or room is usually well insulated so as to maintain a uniform temperature of 95°F. to 98°F. and a relative humidity of 80% to 85%. At this temperature, yeast action is vigorous and the relatively high humidity prevents the dough loaves from crusting over. The loaves are allowed to proof from 30 to 60 minutes until they are double in size.

If pan racks are available, the upper shelves of the cabinet should be loaded first. If, however, the temperature and humidity of the proof box are not uniform and the upper part of the box is warmer than the bottom, the racks should be loaded from bottom to top.

Baking

Temperature and time: Oven temperatures range between 375°F. to 450°F., depending on type and size of loaf. Flash heat, a temporary excessive oven temperature at the start of the baking process, is to be avoided for it will cause a crust to form on the dough loaves before the inside is properly baked.

Spacing pans in oven: To insure uniform baking, the pans must be properly spaced. The exact space which will permit thorough baking of the center loaves in a set of pans depends on

the type and size of pan as well as on the type of oven. 1-pound pans should be spaced about $\frac{3}{4}$ inch apart at the top.

Loading and unloading: Extreme care should be taken to avoid jarring the pans as they are removed from the proof box and loaded into the oven. In loading an oven, it is advisable to load one half first, working from the rear to the front, then the other half. In unloading, the half which was loaded first should be emptied first.

Loss of weight: Loss in weight during baking is due mainly to evaporation of moisture from the dough loaves and varies with the type of dough, size of loaf and general oven conditions. It must be determined by experience in order to set the necessary scaling weight.

Cooling: Cool bread gradually to avoid cracking of the crust.

Controlling Rope

Rope is a bread infection which may appear in 6 to 24 hours after baking. Rope can be detected in the bread by an odor resembling ripe cantaloupe. As rope develops yellow or brown spots, having soft sticky centers, form in the crumb. The spots increase in size until in about 48 hours the crumb of the loaf is changed into a strong smelling, brownish, soft, sticky mass which can be pulled into strings or rope.

Cause: Rope is caused by bacteria which are found on the surfaces of grains, potatoes and other vegetables and in the soil. Moist, warm conditions favor the development of rope.

Remedy: Keep bake shop in a clean, sanitary condition.

Sterilize equipment with live steam or boiling vinegar.

Keep doughs cool, not over 80°F.

Add vinegar to each dough in the proportion of 1 quart of vinegar to each 100 pounds of flour. This is an absolute preventative.

Cool bread as rapidly as possible after baking.

WHITE BREAD

(Average formula)

Yield: Approx. 160 (1-pound) loaves.

Held: Approx.	160 (1-)	pouna)	loaves.	Portion:	Approx. 4 ounces.
Ingredients	BAS	IS 100 P	OUNDS FLOUR		
	WEI	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Yeast,	Pounds 2	Ounces		Dissolve yeast in part of	
compressed. Water (variable).	65		8 gallons	water. Add remaining water, sugar, salt and	
Sugar	4		½ gallon	milk powder. Mix.	
Salt	2	8	11/4 quarts	Ingredients, except yeast, need not be thoroughly	
Milk, skim, powdered.	6		51/4 quarts	dissolved.	
Flour	100		25 gallons	Add flour and mix well.	
Shortening	5		2½ quarts	Add and mix well, about 10	

Fermentation: Bring dough from mixer at a temperature of 78°F. to 80°F. Let dough rise about 2 hours.

Punch: Take to bench and let rest 20 minutes.

Make-up: Make up into loaves of desired size and pan.

Proof: Proof until double in size, at 95°F. and high humidity, if possible.

Baking: Bake at 450°F. for 35 to 45 minutes.

NOTE.—1. 8 gallons fresh liquid milk or reconstituted evaporated milk may be used in place of the water and powdered milk. See page 21.

2. 1 pound active dry yeast may be used in place of 2 pounds compressed yeast.

3. 1 pound malt may be used in place of 1 pound sugar.

Portion: Annroy 1 ounges

4. For richer loaf with better keeping qualities, increase the sugar and shortening by about 30 to 40 percent.

Variation

minutes.

"No Time Dough":

This requires short fermentation.

Increase compressed yeast to 3 pounds. For active dry yeast use 1 pound 8 ounces.

Bring dough from mixer at 88°F. to 90°F. This can be done by using warm water in the dough. No other formula changes are necessary.

Make-up: Let dough rest 15 minutes. Make up. Proof and bake as for regular dough.

WHITE BREAD

(Average formula)

Yield: Approx. 24 (1-pound) loaves.

Ingredients		100 PC	ORTIONS	Manage Manage	Parrows		
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	Portions		
Yeast, compressed. Water (variable). Sugar	Pounds 9	Ounces 43/4 12 91/2	1½ gallons	Dissolve yeast in part of water. Add remaining water, sugar, salt and milk powder. Mix.			
Salt		6	3/4 cup	Ingredients, except yeast, need not be thoroughly dissolved.			
powdered. Flour Shortening	15	12		Add flour and mix well. Add and mix well, about 10 minutes.			

Fermentation: Bring dough from mixer at a temperature of 78°F. to 80°F. Let dough rise about 2 hours.

Punch: Take to bench and let rest 20 minutes.

Make-up: Make up into loaves of desired size and pan.

Proof: Proof until double in size, at 95°F. and high humidity, if possible.

Baking: Bake at 450°F. for 35 to 45 minutes.

Note.—1. 1¼ gallons fresh liquid milk or reconstituted evaporated milk may be used in place of the water and powdered milk. See page 21.

2. 2 ounces malt may be used in place of 2 ounces sugar.

3. $2\frac{1}{2}$ ounces active dry yeast may be used in place of $4\frac{3}{4}$ ounces compressed yeast.

Portion: Approx. 4 ounces.

4. For richer loaf with better keeping qualities increase the sugar and shortening by about 30 to 40 percent.

Variation

"No Time Dough":

This requires short fermentation.

Increase compressed yeast to 7 ounces. For active dry yeast use 3½ ounces.

Bring dough from mixer at 88°F. to 90°F. This can be done by using warm water in the dough. No other formula changes are necessary.

Make-up: Let dough rest 15 minutes. Make up. Proof and bake as for regular dough.

FIELD BREAD

(Straight dough method)

Yield: Approx. 35 (4-pound) loaves.

Portion: Approx. 4 ounces.

Ingredients	BAS	SIS 100 P	OUNDS FLOUR	Marine Marine	PORTIONS
	WEIGHTS		Amounts (approx.)	MIXING METHOD	FORTIONS
Yeast, compressed. Water (variable). Salt	Pounds 55 2 3 100	Ounces 12 	67/8 gallons	Dissolve the yeast in part of water. Mix all ingredients to a very stiff dough.	

Fermentation: Bring dough from mixing bowl at 78°F. to 80°F. Let rise about 4 hours.

Punch: Give second rise for 1 to $1\frac{1}{2}$ hours. Punch again. Take to bench. Let dough stand about 20 minutes.

Make-up: Scale dough into $4\frac{1}{2}$ -pound pieces. Round up and flatten out into circular loaves about 10 inches in diameter and $1\frac{1}{2}$ inches thick. Place 3 loaves on greased bun pan.

Proof: Proof for 15 minutes. Dock dough in 3 places by inserting thumb into dough to a

depth of about 1 inch.

Baking: Bake at 450° F. for $1\frac{1}{2}$ to $1\frac{3}{4}$ hours.

Note.—1. 6 ounces active dry yeast may be used in place of 12 ounces compressed yeast.

2. This bread is a circular loaf about 11 inches in diameter, 4 to 5 inches thick, with a thick, hard crust. The crust, if unbroken, lessens the possibility of mold development, permits rough handling and stacking in transportation without injury. It will keep the bread fresh and edible for a period of 2 to 3 weeks.

FIELD BREAD

(Straight dough method)

Yield: Approx. 5 (4-pound) loaves.

Portion: Approx. 4 ounces.

Ingredients		100 PC	ORTIONS	M	Denman
	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	Portions
Yeast, compressed.	Pounds	Ounces 13/4			
Water (variable).	8	4	41/8 quarts	Dissolve the yeast in part	
Salt		43/4	½ cup	of water.	
Sugar		8	1 cup	Mix all ingredients to a very stiff dough.	
Flour	15		3¾ gallons		
Shortening		11/4	2 tablespoons		

Fermentation: Bring dough from mixer at 78° F. to 80° F. Let rise about 4 hours.

Punch: Give second rise for 1 to $1\frac{1}{2}$ hours. Punch again. Take to bench. Let dough stand about 20 minutes.

Make-up: Scale dough into $4\frac{1}{2}$ -pound pieces. Round up and flatten out into circular loaves about 10 inches in diameter and $1\frac{1}{2}$ inches thick. Place 3 loaves on a greased bun pan.

Proof: Proof for 15 minutes. Dock the dough in 3 places by inserting thumb into dough to a

depth of about 1 inch.

Baking: Bake at 450°F. for 11/2 to 13/4 hours.

NOTE.—1. 1 ounce active dry yeast may be used in place of $1\frac{3}{4}$ ounces compressed yeast.

2. This bread is a circular loaf about 11 inches in diameter, 4 to 5 inches thick, with a thick, hard crust. The crust, if unbroken, lessens the possibility of mold development, permits rough handling and stacking in transportation without injury. It will keep the bread fresh and edible for a period of 2 to 3 weeks.

RYE BREAD

Yield: Approx. 145 (1-pound) loaves.

Yield: Approx.	145 (1-	-pound)	loaves.	Portion:	Approx. 4 ounces.
Ingredients	BASIS 100 POUNDS FLOUR			MIXING METHOD	PORTIONS
INGREDIENTS	WEI	GHTS	Amounts (approx.)	HIXING NETHOD	FORTIONS
Yeast, compressed.	Pounds 3	Ounces		Dissolve yeast in part of	
Water (variable).	58		71/4 gallons		
Caraway seed (optional).		31/2			
Sugar	2	8		need not be thoroughly	
Salt	2		1 quart	dissolved.	
Flour, white	80	*	20 gallons	Add flour and mix well.	
Flour, dark or medium rye.	20		5 gallons		
Shortening	2	8	11/4 quarts	Add and mix about 10 minutes.	

Fermentation: Bring dough from mixer at a temperature of 77° F. Let dough rise about $1\frac{1}{2}$ hours.

Punch: Take to bench and let rest 20 minutes.

Make-up: Make up into loaves of desired size. Place about 6 inches apart on bun pans sprinkled with corn meal.

Proof: Proof until double in size, at 95°F.

and high humidity if possible. Make 3 or 4 cuts across the top of loaf with a sharp knife. Wash with Starch Water (page 340).

Baking: Bake at 425° F. for 25 to 35 minutes.

Note.—1. 1½ pounds active dry yeast may be used in place of 3 pounds compressed yeast.

2. $2\frac{1}{2}$ pounds malt may be used in place of $2\frac{1}{2}$ pounds sugar.

Yield: Approx. 22 (1-pound) loaves.

Portion: Approx. 4 ounces.

	100 PORTIONS			MINING MERIOD	Portions
Ingredients	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	FORTIONS
Yeast, compressed. Water, cool (variable). Caraway seed (optional). Sugar	8	Ounces 71/4 12 1/2 6 43/4	3/4 cup	Dissolve yeast in part of water. Add remaining water, sugar and salt. Mix. Ingredients, except yeast, need not be thoroughly dissolved.	
Flour, white Flour, dark or medium rye. Shortening	12 3 		3 gallons	Add flour and mix well. Add and mix for about 10 minutes.	

Fermentation: Bring dough from mixer at a temperature of 77° F. Let dough rise about $1\frac{1}{2}$ hours.

Punch: Take to bench and let rest 20 minutes.

Make-up: Make up into loaves of desired size. Place about 6 inches apart on bun pans sprinkled with corn meal.

Proof: Proof until double in size, at 95°F.

and high humidity if possible. Make 3 or 4 cuts across the top of loaf with a sharp knife. Wash with Starch Water (page 340).

Baking: Bake at 425° F. for 35 to 45 minutes. Note.—1. 3½ ounces active dry yeast may be used in place of 7¼ ounces compressed yeast.

2. 6 ounces malt may be used in place of 6 ounces sugar.

50 PER CENT WHOLE WHEAT BREAD

Yield: Approx. 153 (1-pound) loaves.

Portion: Approx. 4 ounces.

Ingredients	BASIS 100 POUNDS FLOUR			MIXING METHOD	Donne
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	PORTIONS
Yeast, compressed. Water (variable). Sugar	Pounds 3 62	Ounces	73/4 gallons	Dissolve yeast in part of water. Add remaining water, sugar, salt and powdered milk. Mix.	
Salt	2		1 quart	Ingredients, except yeast, need not be thoroughly dissolved.	
powdered. Flour, whole wheat. Flour, white	50 50		$12\frac{1}{2}$ gallons $12\frac{1}{2}$ gallons	$\left. \left. \right. \right\}$ Add flour and mix well. $\left. \left. \left. \left. \right. \right. \right\} \right. \right.$	
Shortening	3		1½ quarts	Add and mix well, about 10 minutes.	

Fermentation: Bring dough from mixer at 78° F. to 80° F. Let rise about 2 hours.

Punch: Take to bench and let rest 30 minutes.

Make-up: Make up into loaves of desired size and pan.

Proof: Proof until dough increases in size by 50% to 75%. Do not let dough double in size. Proof at 95° F. and high humidity, if possible.

Baking: Bake at 425° F. about 35 minutes.

Note.—1. 1 pound 8 ounces active dry yeast may be used in place of 3 pounds compressed yeast.

- 2. 2 pounds malt may be used in place of 2 pounds sugar.
- 3. 73/4 gallons fresh liquid milk or reconstituted evaporated milk may be used in place of the water and powdered milk. See page 21.

50 PER CENT WHOLE WHEAT BREAD

Yield: Approx. 23 (1-pound) loaves.

Portion: Approx. 4 ounces.

Ingredients	100 PORTIONS			Mayana Memuon	Donmyova
	WEIGHTS		Amounts (approx.)	MIXING METHOD	Portions
Yeast, compressed. Water (variable). Sugar	Pounds 9	Ounces 7 4 91/2	1½ gallons	Dissolve yeast in part of water. Add remaining water, sugar, salt and powdered milk. Mix.	
Salt		4 ³ / ₄ , 7 ¹ / ₄ ,		need not be thoroughly	
powdered. Flour, whole wheat. Flour, white	7 7	8	7½ quarts	$\left. \left. \left. \right. \right\} \right\}$ Add flour and mix well. $\left. \left\{ \right. \right. \right. \right.$	
Shortening		71/4	7/8 cup	Add and mix well, about 10 minutes.	

Fermentation: Bring dough from mixer at 78° F. to 80° F. Let dough rise about 2 hours. Punch: Take to bench and let rest 30 minutes.

Make-up: Make up into loaves of desired size and pan.

Proof: Proof until dough increases in size by 50% to 75%. Do not let dough double in size. Proof at 95° F. and high humidity, if possible.

Baking: Bake at 425° F. about 35 minutes.

Note.—1. 3½ ounces active dry yeast may be used in place of 7 ounces compressed yeast.

- 2. $4\frac{1}{2}$ ounces malt may be used in place of $4\frac{1}{2}$ ounces sugar.
- 3. 11/8 gallons fresh liquid milk or reconstituted evaporated milk may be used in place of the water and powdered milk. See page 21.

Yield: Approx. 250 dozen (3,000 rolls).

Ingredients	BASI	S 100 P	OUNDS FLOUR	Managa Managa			
	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	Portions		
Yeast, compressed. Water (variable). Sugar Salt Milk, skim, powdered.	Pounds 2 62 8 2 5	Ounces	73/4 gallons	Dissolve yeast in part of water. Add remaining water, sugar, salt and powdered milk. Mix. Ingredients, except yeast, need not be thoroughly dissolved.			
Flour, white	100		25 gallons	Add flour and mix well.			
Shortening	8		1 gallon	Add and mix well, about 10 minutes.			

Fermentation: Bring dough from mixer at 78°F. to 80°F. Let dough rise about 2 hours. Punch: Take to bench and let rest 20 minutes.

Make-up: Scale into 36-ounce pieces. Take to bun press. Flatten out in press pan. Cut into 36 pieces.

Proof: Proof until rolls are about double in size, at 95° F. and high humidity, if possible.

Baking: Bake at 425° F. about 25 minutes.

NOTE—1. 1 pound active dry yeast may be used in place of 2 pounds compressed yeast.

Portion: 2 rolls.

- 2. $7\frac{3}{4}$ gallons fresh liquid milk or reconstituted evaporated milk may be used in place of the water and powdered milk. See page 21.
- 3. If bun press is not available, pinch off 1-ounce pieces of dough and round up.
- 4. Rolls may be made up into a number of styles such as finger rolls, parker house rolls and buns.

Yield: Approx. 18 dozen.

		100 PC	ORTIONS	MIXING METHOD	Dangyaya
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Yeast, compressed. Water (variable). Sugar	Pounds 4	Ounces 21/4 8 91/4 21/4 53/4	½ cup	water, sugar, salt and powdered milk. Mix. Ingredients, except yeast.	
Flour	7	4	71/4 quarts	Add flour and mix well.	
Shortening		91/4	1½ cups	Add and mix well, about 10 minutes.	

Fermentation: Bring dough from mixer at 78° F. to 80° F. Let dough rise about 2 hours. Punch: Take to bench and let rest 20 minutes.

Make-up: Scale into 36-ounce pieces. Take to bun press. Flatten out in press pan. Cut into 36 pieces.

Proof: Proof until rolls are about double in size, at 95° F. and high humidity, if possible.

Baking: Bake at 425° F. about 25 minutes.

NOTE—1. $1\frac{1}{8}$ ounces active dry yeast may be used in place of $2\frac{1}{4}$ ounces compressed yeast.

Portion: 2 rolls.

- 2. 21/4 quarts fresh liquid milk or reconstituted evaporated milk may be used in place of the water and powdered milk. See page 21.
- 3. If bun press is not available, pinch off 1-ounce pieces of dough and round up.
- 4. Rolls may be made into a number of styles such as finger rolls, parker house rolls and buns.

Sweet Yeast Dough

Production Pointers

Basic Types:

- 1. Ordinary sweet yeast dough.
- 2. "Rolled In" or Danish dough.

The basic difference between the two types is in the handling after mixing.

Ordinary sweet yeast dough is mixed, given fermentation time, made up, proofed, baked and finished.

Danish dough is mixed, shortening or butter is rolled in, and then handled the same as ordinary sweet yeast dough.

The basic sweet yeast dough formula given on page 353 is suitable for mixing up into either

regular sweet yeast goods or into Danish pastry.

Danish pastry is made by rolling in from 2 ounces to 5 ounces shortening or butter to 1 pound of dough. The higher the amount of "rolled in" fat used, the richer the finished Danish pastry.

Mixing: The purposes of the mixing operation are:

To blend thoroughly all ingredients

To develop sufficient structure-forming gluten

These two objectives can be accomplished by adding ingredients to the mixing bowl either singly or in groups.

An easier way is to mix sweet doughs by the

simplified mixing method outlined on page 353. In this method all the ingredients are added to the mixing bowl and mixed until a smooth uniform dough is obtained.

This saves time and aids in more uniform production of sweet yeast goods. Sweet doughs can be mixed by this method in as short a time as 3 minutes.

Fermentation: Sweet doughs, because of their richness, have wider fermentation tolerance than bread doughs. The dough temperatures do not have to be carefully controlled. Doughs may be taken from the mixer at temperatures ranging from 78° F. to 85° F. Primary fermentation from 1½ to 2 hours is necessary. Higher dough temperatures require a shorter time.

Sweet doughs have good bench tolerance. They do not become overfermented if made up within 1 hour after primary fermentation. Secondary fermentation, or pan proofing, requires about 1 hour.

Sweet doughs produce best finished products when handled on the "young" side. "Old" (overfermented) doughs produce baked goods poor in flavor and appearance.

Refrigeration: Sweet yeast doughs lend themselves readily to refrigeration. If refrigeration facilities are available, it is possible to make up the Basic Sweet Dough (page 353) many hours before baking time.

The following table shows 2 general methods of handling refrigerated doughs.

HANDLING REFRIGERATED SWEET YEAST DOUGHS

Method I

Mix the dough.

Bring dough from mixer at normal temperature, 78° F. to 85° F.

Give dough from $\frac{1}{2}$ to $\frac{3}{4}$ normal fermentation time.

Punch and flatten 8 to 10-pound pieces of dough on bun pans. Cover with greased paper. Refrigerate at 32° F. to 40° F.

Bring each 8 to 10-pound piece to room temperature.

Make up into various units.

Proof in normal way.

Bake in normal way.

Avoid "Old" Doughs When Handling Refrigerated Sweet Yeast Doughs: Maintain refrigerator temperature under 40° F.

Open refrigerator no more than necessary. Scale dough pieces to weigh less than 10 Method II

Mix the dough.

Bring dough from mixer at normal temperature, 78° F. to 85° F.

Give dough from $\frac{1}{2}$ to $\frac{3}{4}$ normal fermentation time.

Make up into various units. Place individual pieces on bun pans. Cover with greased paper.

Refrigerate at 32° F. to 40° F.

Bring individual pieces on each pan to room temperature.

Proof in normal way.

Bake in normal way.

pounds. Larger pieces ferment too much before the cold temperature of the refrigerator penetrates to the center of the dough to prevent yeast activity.

Doughs cannot be successfully refrigerated for more than 72 hours.

Yield: Approx. 223 pounds.

Portion: Approx. 5½ ounces.

	BASIS 100 POUNDS FLOUR			MIXING METHOD	Portions
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	- OKTIONS
Sugar	Pounds 18	Ounces	2½ gallons		
Salt	1	12	3½ cups		
Malt	1	12	2½ cups	Place all dry ingredients	
Shortening	20		$2\frac{1}{2}$ gallons		
Eggs, whole	20		200 (10 quarts)	Dissolve yeast in part of	•••••
Flavoring	-4.	11/2	3 tablespoons		
Yeast	6	12		Mix to a smooth dough,	
Milk, liquid (variable).	55		6¾ gallons	about 2 to 5 minutes.	
Flour	100		25 gallons		
Mace		2	½ cup		

Fermentation: Bring dough from mixer at 78° F. to 85° F. Allow about 2 hours for fermentation.

Punch: Take to bench and let rest about 20 minutes.

Make-up: Make up into units of desired size and shapes (pages 354, 355, 356.)

Proof: Proof until pieces are about double in size.

Baking: Bake large units at about 375° F. and small units at temperatures up to 425° F.

Note.—1. 1 pound 12 ounces sugar may be used in place of 1 pound 12 ounces malt.

- 2. 5 pounds powdered eggs and 15 pounds water may be used in place of 20 pounds eggs.
- 3. 3 pounds 6 ounces active dry yeast may be used in place of 6 pounds 12 ounces compressed yeast.
- 4. Increase shortening and eggs to 26\(^3\)/4 pounds each to make a richer dough. Part butter may be used as shortening.
- 5. 2 ounces nutmeg may be used in place of 2 ounces mace.

Yield: Approx. 331/2 pounds.

Portion: Approx. 51/2 ounces.

	100 PORTIONS				
Ingredients	WEIGHTS		Amounts (approx.)	MIXING METHOD	PORTIONS
Sugar	Pounds 2	Ounces 12	13/8 quarts		
Salt		4	½ cup		
Malt	••••	4	½ cup	Dlace all dwy incredients	
Shortening	3		1½ quarts	Place all dry ingredients and shortening in mixing bowl.	
Eggs, whole	3		30 (1½ quarts)	Dissolve yeast in part of	••••••
Flavoring	****	. 1/4	½ tablespoon		
Yeast	1	****			
Milk, liquid (variable).	8	4	1 gallon	Mix to a smooth dough, about 2 to 5 minutes.	
Flour	15		3¾ gallons		•••••
Mace		1/4	1 tablespoon		

Fermentation: Bring dough from mixer at 78° F. to 85° F. Allow about 2 hours for fermentation.

Punch: Take to bench and let rest 20 minutes.

Make-up: Make up into units of desired size and shapes (pages 354, 355, 356).

Proof: Proof until pieces are about double in size.

Baking: Bake large units at about 375° F. and small units at temperatures up to 425° F.

Note.—1. 4 ounces sugar may be used in place of 4 ounces malt.

- 2. 12 ounces powdered eggs and 2 pounds 4 ounces water may be used in place of the 3 pounds eggs.
- 3. 8 ounces active dry yeast may be used in place of 1 pound compressed yeast.
- 4. Increase shortening and eggs to 4 pounds each to make a richer dough.
- 5. $\frac{1}{4}$ ounce nutmeg may be used in place of $\frac{1}{4}$ ounce mace.

Variations

Cinnamon Buns

Make-up: Roll out a strip of fermented Basic Sweet Dough $\frac{1}{8}$ inch to $\frac{1}{4}$ inch thick, about 15 inches wide and as long as desired.

Brush with melted butter and sprinkle liberally with cinnamon, sugar and raisins.

Brush bottom edge of dough with egg wash (page 357). Roll like a Jelly Roll (page 390). Seal edge.

Cut off pieces approximately 1 inch long. Place cut-side down on greased sheet pans.

Proof: Proof until about double in size.

Baking: Bake at 400° F. to 425° F. for 15 to 20 minutes.

Finishing: Ice, while warm with Vanilla Water Icing (page 357).

Butterfly Buns

Make-up: Make up like cinnamon buns. Cut off pieces approximately 1 inch long. Press a

round dowel or small pie pin firmly down the center of each roll at right angles to the 1-inch direction.

Press or flatten out the folds of each end. Place on lightly greased pans.

Proof: Proof until approximately double in size.

Baking: Bake at 400° F. to 425° F. for 15 to 20 minutes.

Finishing: Ice, while warm, with Vanilla Water Icing (page 357) or wash with Shine (page 358).

Raisin Buns

Make-up: Just before sweet dough is ready to be removed from the mixer, add 4 ounces soaked seedless raisins per 1 pound of dough.

Give dough usual fermentation period. Scale into 1½-ounce pieces. Round up. Place close together on greased sheet pans.

Proof: Proof until approximately double in size.

Baking: Bake at 400° F. to 425° F. for 15 to 20 minutes.

Finishing: Ice, while warm, with Vanilla Water Icing (page 357).

Flat-Top Coffee Cake

Make-up: Roll out a 5-pound piece of fermented Basic Sweet Dough. Place on bun pan or make individual 10-ounce coffee cakes in 8-inch round layer cake tins.

Roll lightly toward sides of pan until the whole pan is covered. Dock dough. Wash with water. Spread with Butter Topping (page 356) or Streusel Topping (page 357).

Proof: Proof until approximately double in size.

Baking: Bake at 375° F. to 400° F. for 20 to 25 minutes.

Finishing: Sprinkle with powdered sugar, if desired. Do not use icing.

Doughnuts

Make-up: Roll out dough ¼ inch thick and cut doughnuts. Various shapes may be used. Place on floured cloths.

Proof: Proof until approximately double in size.

Frying: Fry in hot deep fat at 365° F. to 375° F. for $1\frac{3}{4}$ to $2\frac{1}{2}$ minutes.

Finishing: Dust with powdered sugar which has been sifted with a little cinnamon or serve plain.

Pershings

Make-up: Make up like Cinnamon Buns but do not brush with butter or other fat. Cut off thin slices (about ½ inch thick) to insure thorough frying and place on cloth.

Proof: Proof until approximately double in size.

Frying: Fry in hot deep fat at 365° F. to 375° F. for $1\frac{3}{4}$ to $2\frac{1}{2}$ minutes.

Finishing: Place a dot of jelly in the center of each Pershing. Ice with Vanilla Water Icing (page 357).

Long Johns

Make-up: Roll out dough to a thickness of about $\frac{1}{4}$ inch. Cut dough into rectangular pieces about $\frac{1}{2}$ inch x 4 inches. Place on floured cloths.

Proof: Proof until about double in size.

Frying: Fry in hot deep fat at 365° F. to 375° F. for $1\frac{3}{4}$ to $2\frac{1}{2}$ minutes.

Finishing: Sugar or ice with Vanilla Water Icing (page 357).

Twists

Make-up: Roll out dough to a thickness of about $\frac{1}{4}$ inch and cut into strips about $\frac{1}{2}$ inch x 8 inches. Fold each strip in the middle and twist. Place on floured cloths.

Proof: Proof until approximately double in size.

Frying: Fry in deep fat at 370° F. to 380° F. for $1\frac{3}{4}$ to $2\frac{1}{2}$ minutes.

Finishing: Sugar or ice with Vanilla Water Icing (page 357).

Jelly Doughnuts

Make-up: Roll dough to a thickness of about 1/4 inch. Cut round or diamond-shaped pieces of dough weighing 11/2 ounces. Place on floured cloths.

Proof: Proof until about double in size.

Frying: Fry in hot deep fat at 370° F. to 380° F. for $1\frac{3}{4}$ to $2\frac{1}{2}$ minutes.

Finishing: Fill with jelly, using a creamfilling machine; or split, spread with jelly and replace top.

Danish Pastry

Make-up: Scale Basic Sweet Dough into pieces convenient for rolling (about 4 or 5 pounds). Roll dough into rectangular shape about 1/4 inch thick.

Start at one edge and cover completely $\frac{2}{3}$ of dough with small pieces of butter or shortening. Use from 2 to 5 ounces of fat per pound of dough.

Fold the ½ portion of dough which is not covered by shortening over an equal portion of the buttered dough.

Fold the remaining ½ of the buttered dough over the top to make 3 layers of dough each separated by a layer of butter or shortening.

Roll dough out to a thickness of about ¼ inch. This constitutes the first roll.

Give two more rolls, folding the dough in exactly the same way. Do not roll in any more butter or shortening.

Let dough rest for about 45 minutes. Make up into any desired units.

Danish Twist

Make-up: Cut off a 1½-ounce strip of rolled dough. Divide into 3 pieces of equal weight.

Twist ends of each piece in opposite directions. Let rest on bench for a short time.

Twist each piece again. Braid the 3 together.

Place on greased pans. Brush with egg wash. Sprinkle with sliced nuts, if desired.

Proof: Proof until not quite double in size, about $\frac{3}{4}$ of normal proof.

Baking: Bake at 375° F. to 400° F. for 15 to 20 minutes.

Finishing: Ice, while warm, with Vanilla Water Icing (page 357).

Danish Butter-Horns or Snail Buns

Make-up: Roll 4 or 5-pound piece of rolled-in dough to a thickness of about ½ inch and width of about 12 inches.

Cut into strips ½ inch wide. Twist ends of strips in opposite directions. Coil up entire strip. Place on greased sheet pans. Coil each end toward center for butter horns.

Proof: Proof until approximately double in size.

Baking: Bake at 375° F. to 400° F. for 15 to 20 minutes.

Finishing: Brush with Shine (page 358), or ice with Vanilla Water Icing (page 357), or dust with powdered sugar.

Toppings for Sweet Yeast Dough Products

BUTTER TOPPING

Yield: Approx. 7 pounds.

Portion: 1 to 2 ounces per 10-ounce coffee cake.

		100 PC	RTIONS		
Ingredients	WEIG	GHTS	Amounts (approx.)	MIXING METHOD	Portions
Sugar, confectioners.	Pounds 4	Ounces	3½ quarts		
Butter	2		1 quart		
Egg yolks	1		24 (1 pint)	Mix ingredients together thoroughly.	
Flavoring	••••	1/2	1 tablespoon		
Water			To make a paste		

Usage: Spread on coffee cake before proofing dough.

Note.—Equal parts of powdered egg yolk and water may be used in place of egg yolks.

STREUSEL TOPPING

Yield: Approx. 6 pounds.

Portion: Approx. 1 to 2 ounces per 10-ounce coffee cake.

		100 PC	ORTIONS	MIXING METHOD	PORTIONS
Ingredients	WEI	GHTS	AMOUNTS (approx.)		ORTIONS
Butter	Pounds 1	Ounces	1 pint		
Sugar	4	••••	½ gallon	Mix ingredients together to	
Cinnamon		1	½ cup	a crumblika consistancy	
Flour	1	•	1 quart		

Usage: Sprinkle on coffee cakes before proofing.

VANILLA WATER ICING

Yield: Approx. 2 pounds.

Portion: Approx. 1/2 ounce per 10-ounce coffee cake.

		100 PC	ORTIONS		70
Ingredients	Weights		AMOUNTS (approx.)	MIXING METHOD	Portions
Sugar, confectioners'.	Pounds 1	Ounces 8	11/4 quarts	The same of the same	
Sirup, corn Water, hot		4	3/8 cup	Combine all ingredients and beat thoroughly.	
Vanilla		1/8	½ tablespoon		

Usage: Brush on sweet yeast dough products as they come from oven.

Note. —4 ounces sugar may be used in place of corn sirup.

EGG WASH

Mix equal parts of whole egg and liquid milk Brush on sweet yeast dough products before or mix 1 part by weight of powdered egg to 7 putting into oven. parts by weight of liquid milk.

Yield: Approx. 30 ounces.

Portion: 1/2 ounce per 10-ounce coffee cake.

Ingredients	100 PORTIONS			MIXING METHOD	
	WEIG	нтѕ	AMOUNTS (approx.)	MIXING METHOD	PORTIONS
Gelatin, unflavored. Water, cold Sugar Sirup, corn Sirup drained from canned fruits or ground peach or apricot pulp.		Ounces 1/4 2 10 10 8	1 tablespoon 1/4 cup 1 tup 1 cup		

Usage: Brush on coffee cakes as they come from oven.

Note.—10 ounces sugar may be used in place of 10 ounces corn sirup.

Fillings For Sweet Yeast Dough Products

FRUIT FILLING

Yield: Approx. 5 pounds.

Portion: 1 to 2 ounces per 10-ounce coffee cake.

Ingredients		100 PC	ORTIONS	M	
	WEIG	HTS	Amounts (approx.)	MIXING METHOD	Portions
Cake crumbs	Pounds 2	Ounces	1½ quarts		
Raisins	1		1½ pints		
Nuts, chopped		8	1 pint	Mix ingredients together thoroughly.	
Fruits, chopped		8	1 pint		
Cinnamon	•	1	½ cup		
Milk, liquid (variable).	1		1 pint	Add and mix to proper consistency.	

Usage: Spread on dough as it is being made up into units of desired shapes and sizes.

APPLESAUCE PECAN FILLING

Yield: Approx. 51/2 pounds.

Portion: 1 to 2 ounces per 10-ounce coffee cake.

		100 PC	ORTIONS	Yanna Yanna	Parameter
Ingredients	WEIG	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Pecans, chopped	Pounds 1	Ounces 8	1½ quarts		
Cake crumbs	2		1½ quarts	Mix together to a smooth	
Sugar, brown	1		3 cups	spreading paste.	
Applesauce	1		1 pint		

Usage: Spread on dough as it is being made up into units of desired shapes and sizes.

BUTTER CREAM FILLING

Yield: Approx. 6 pounds.

Portion: 1 to 2 ounces per 10-ounce coffee cake.

		100 PC	ORTIONS		
Ingredients	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	PORTIONS
Sugar, confectioners'. Shortening	Pounds 3	Ounces	$2\frac{1}{2}$ quarts	Cream ingredients together thoroughly.	
Butter		12	1/2 cup		
Eggs, whole	1	4		Add and cream in. Add and mix in.	

Usage: Spread on dough as it is being made up into units of desired shapes and sizes.

Note.—3 ounces powdered eggs and 9 ounces

(1 cup) water may be used in place of 12 ounces eggs.

Yield: Approx. 71/2 pounds.

Portion: 1 to 2 ounces per 10-ounce coffee cake.

		100 PC	ORTIONS		
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Nuts, finely chopped	Pounds 1	Ounces 	1½ pints		
Sugar	2		1 quart		
Cinnamon		1/2	2 tablespoons	Win together to a month	
Eggs, whole	••••	6	4 (3/4 cup)	Mix together to a smooth spreading paste.	
Cake crumbs	3		21/4 quarts		
Milk, liquid (variable).	1		1 pint		

Usage: Spread on dough as it is being made up into units of desired shapes and sizes.

Note.— $1\frac{1}{2}$ ounces powdered eggs and $4\frac{1}{2}$

ounces ($\frac{1}{2}$ cup) water may be used in place of 6 ounces eggs.

Quick Breads and Griddle Products

Production Pointers

The term "quick breads" covers all types of breads and griddle products in which baking powder is used as the leavening ingredient.

Mixing: Mix batters just enough to properly combine ingredients for making tender, fluffy textured, finished products.

The simplified mixing procedure outlined for the formulas in this chapter is easy to follow and aids in producing uniform breads and griddle products.

Avoid over-mixing of these batters as they

are all soft due to high liquid content. Overmixing develops the elasticity of the flour gluten; this has a toughening effect.

Make-up and Scaling: Quick breads are most conveniently made up by spreading the batter on a thoroughly greased bun pan. Use from 4 to 5 pounds of batter per pan to give finished breads of proper volume for serving.

Baking: Bake small units, such as muffins and biscuits at temperatures ranging from 400° F. to 425° F. Bake larger units, such as quick breads scaled in bun pans, at approximately 375° F.

BAKING POWDER BISCUITS AND SHORT CAKE

Yield: Approx. 291/4 pounds.

Portion: 2 biscuits.

		100 PC	ORTIONS	MIXING METHOD	Portions
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	
Flour	Pounds 14	Ounces	$3\frac{1}{2}$ gallons		
Baking powder		9	1½ cups	Sift ingredients together.	
Salt	••••	21/2	5 tablespoons		
Shortening	3	8	1¾ quarts	Cut in shortening and mix to a fine crumb.	
Milk, liquid (variable).	11		13/8 gallons		

Make-up: Roll dough ½ inch thick. Cut with 2-inch floured biscuit cutter. Place side by side on ungreased baking sheets.

Baking: Bake at 425° F. for 12 to 15 minutes. Serving: Serve hot.

Variations

Shortcake (Large)

Make-up: Roll biscuit dough ¼ inch thick. Fit ½ of dough into greased bun pans. Brush with melted butter. Place remaining ½ on top. Baking: Bake at 425° F. for 15 to 20 minutes.

Serving: Cut into 2-inch squares. Split hot shortcakes. Pile sliced fruit or crushed sweetened fruit between halves and over top.

Shortcake (Individual)

Make-up: Roll dough ¼ inch thick. Cut with 2-inch floured cutter. Place half of biscuits on ungreased baking sheets. Brush with melted butter. Place remaining biscuits on top.

Baking: Bake at 425° F. for 12 to 15 minutes. *Serving:* Split hot shortcakes. Pile crushed sweetened fruit between halves and over tops.

COFFEE CAKE

Yield: Approx. 153/4 pounds.

Portion: 2 pieces, 2 x 3 inches.

T	100 PORTIONS			Marria Marria	
Ingredients	WEIGHTS AMO		AMOUNTS (approx.)	MIXING METHOD	PORTIONS
Shortening	Pounds 1	Ounces	1 pint	Cream shortening and	
Sugar	2	8	11/4 quarts	sugar.	
Eggs, whole	1	4	12 (1½ pints).	Add eggs. Beat well.	
Flour	5-		11/4 gallons		••••••
Baking powder		4	10 tablespoons.	Sift flam with haling	
Salt	· · · · ·	11/2	3 tablespoons	Sift flour with baking powder, salt and nutmeg.	
Nutmeg		1/2	2 tablespoons	Add alternately with the milk.	
Milk, liquid (variable).	5	12	27/8 quarts		

Make-up: Pour into greased baking pans, scaling about 4 pounds per bun pan. Sprinkle with Streusel Topping (page 357).

Baking: Bake at 375° F. to 400° F. for 20

to 30 minutes.

Note.— $4\frac{3}{4}$ ounces powdered eggs and $15\frac{1}{4}$ ounces ($1\frac{3}{4}$ cups) water may be used in place of 1 pound 4 ounces eggs.

Portion: 2 buns.

QUICK CINNAMON BUNS

Yield: Approx. 241/2 pounds.

Ingredients	100 PORTIONS				
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	PORTIONS
Baking Powder Biscuit Dough		Ounces			
(page 361). Sugar	1	8	1½ pints		
Salt		1/2	1 tablespoon	Mix ingredients together	
Cinnamon	••••	1/2	2 tablespoons	thoroughly.	
Shortening	1	12	3½ cups		•••••••••••••••••••••••••••••••••••••••
Sugar	3		1½ quarts		
Water	1	8	1½ pints	Mix thoroughly together.	
Shortening, melted.		10	1½ cups		
Raisins, seedless	2	••••	1½ quarts		

Make-up: Roll biscuit dough into rectangular pieces about 12 inches wide and ¼ inch thick. Spread on sugar, salt, cinnamon and shortening.

Sprinkle with raisins. Roll as for jelly roll. Cut into 1-inch slices.

Spread shortening, water and sugar mixture in bottom of sheet pans. Place rolls cut-side down on pan.

Baking: Bake at 375° F. for 25 to 30 min-

utes. Remove rolls from pans at once.

Serving: Serve warm.

Note.—3 pounds $(4\frac{1}{4} \text{ cups})$ corn sirup may be used in place of 3 pounds sugar.

Variation

Quick Pecan Rolls

Use coarsely chopped nuts in place of raisins.

Yield: Approx. 381/4 pounds.

Portion: 4 ounces (approx. 2-inch square).

•		100 PC	RTIONS	MIXING METHOD	Poperava
Ingredients	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	Portions
Apples, sliced	Pounds 20	Ounces	5 gallons	Place in greased baking pans	
Water			2½ quarts	Pour over apples	
Sugar	8		1 gallon		
Flour	3		3/4 gallon	Notice to each on sometile amount has	
Cinnamon		1	½ cup	Mix together until crumbly	
Shortening	2	4	1½ quarts		

Make-up: Sprinkle flour mixture over apples.

Baking: Bake in moderate oven (375° F.)

15 minutes or until apples are tender.

NOTE.—Serve with Whipped Evaporated Milk Topping (page 75), Custard Sauce (page 72), or Vanilla Sauce (page 76).

APPLE CRISP

(Using dehydrated apple nuggets)

Portion: 4 ounces (approx. 2-inch square).

Ingredients	100 PORTIONS			MIXING METHOD	Portions
	WEI	GHTS	AMOUNTS (approx.)	HIMING HEIMOD	OMITONS
Apple nuggets, dehydrated.	Pounds 3	Ounces	1 gallon7½ quarts	Soak nuggets in water 60 minutes. Spread in greased baking pans.	
Nutmeg		3/4	3 tablespoons	Mix together. Sprinkle over	
Sugar	2		1 quart	apples.	
Sugar, brown	6		4½ quarts		
Flour	3		3/4 gallon	Mix together until crumbly	
Shortening	2		1 quart		

Make-up: Sprinkle flour mixture over apples.

Baking: Bake in moderate oven (350° F.)

1½ hours until well browned.

Serving: Serve while hot.

Yield: 100 dumplings.

Water, boiling...

Portion: 1 dumpling. 100 PORTIONS INGREDIENTS MIXING METHODPortions WEIGHTS AMOUNTS (approx.) Pounds Ounces Flour 10 2½ gallons.... Salt____ 3 Baking powder. 1 cup 1½ quarts..... Cut in. Mix to a fine crumb... 3 Shortening..... Milk, liquid 5 12 2½ quarts Add. Mix to a consistency of (variable). pie dough. Apples, pared, 20 5 gallons.... cored, sliced, or halved. Sugar 5 8 23/4 quarts 1½ cups Mix together Cinnamon 6 ½ gallon Sugar 4

3/4 gallon

Make-up: Roll dough on floured surface to 1/4 inch thickness. Cut into 5-inch squares. Place apples in center of each square.

Sprinkle each with 1 ounce sugar-cinnamon mixture. Fold opposite corners of dough over apples. Pinch edges together firmly.

Place on greased bun pans. Sprinkle with 4 pounds sugar. Add water.

Baking: Bake in hot oven (400° F.) about 40 minutes.

Note.—1. Fresh, frozen, or canned apples may be used.

2. Nutmeg may be used in place of cinnamon.

Portion: 3- or 4-inch cut or \(\frac{1}{6} \) (10-inch) pie.

	100 PORTIONS			Maying Magner	Danness
Ingredients	WEIGHTS		Amounts (approx.)	MIXING METHOD	Portions
Flour	Pounds 4	Ounces 10	$4\frac{2}{3}$ quarts		
Salt		1	2 tablespoons	Sift to woth on	
Sugar		6	3/4 cup	Sift together.	
Baking powder		$3\frac{1}{2}$	½ cup		
Shortening		14	1¾ cups	Cut in.	
Milk, liquid	3	12	1¾ quarts	Add. Mix to biscuit dough	
(variable). Apples, peeled,	24		6 gallons	consistency.	
cored, sliced. Sugar	5		3¾ quarts		
Cinnamon		2	½ cup	Mix together.	
Nutmeg		2	½ cup		

Make-up: Roll dough on floured surface to $\frac{1}{4}$ inch thickness. Line 3 bun pans or 17 (10-inch) pie tins with dough.

Place layer of apples on dough. Sprinkle with sugar mixture. Cover with another layer of dough.

Baking: Bake in hot oven (400° F.) about 35 minutes.

NOTE.—1. Serve with Hard Sauce (page 73) or Lemon Sauce (page 73).

2. Fresh, frozen or canned apples may be used.

APPLE TORTE

Yield: Approx. 171/2 pounds.

Portion: 2 pieces, 2 x 3 inches.

Y	100 PORTIONS			Mayraya Marria	
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	PORTIONS
Flour	Pounds 5	Ounces 8	51/4 quarts		
Baking powder		21/2	6½ tablespoons	Sift flour, baking powder,	
Sugar	3		1½ quarts	sugar and salt.	
Salt	T	2	½ cup		
Lemon rind, grated.	2	1	1/4 cup	Add lemon rind and 1½ quarts apples to flour	
Apples, sliced	20 1	10			
Eggs, whole	11 5 44	12		Combine eggs and milk; add flour mixture and	
Milk, liquid	3	8	13/4 quarts	blend.	
Shortening, melted.	1	4	2½ cups	Add shortening	
Sugar	·	12	1½ cups	Blend sugar and cinnamon.	
Cinnamon		1/8	$1\frac{1}{2}$ teaspoons		
Butter, melted	••••	6	³ / ₄ cup		

Make-up: Spread in bun pans. Brush with melted butter. Sprinkle with sugar-cinnamon mixture. Garnish with remaining apple slices. Baking: Bake at 375° F. for 20 to 25 minutes.

Note.—3 ounces powdered eggs and 9 ounces $(1\frac{1}{8} \text{ cups})$ water may be used in place of 12 ounces eggs.

Yield: Approx. 261/4 pounds.

Portion: 1 roll.

Ingredients	100 PORTIONS			MIXING METHOD	PORTIONS
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	MIMING MILITOR	
Flour	Pounds 4	Ounces 10	42/3 quarts		
Salt		1	2 tablespoons	Sift together.	
Sugar		6	3/4 cup	Sire together.	
Baking powder		31/2	½ cup		
Shortening		14	1¾ cups	Cut in	
Milk, liquid (variable).	3	12	1% quarts	Add. Mix to biscuit dough consistency.	
Cherries, red,	13	6	2 No. 10 cans $(6\frac{1}{2})$ quarts).	Drain and pit. Reserve juice for sauce.	
Sugar	3		1½ quarts	Mix together.	{
Cinnamon		1/4	1 tablespoon		

Make-up: Roll dough on floured surface to thickness of ¼ inch. Spread cherries over dough. Sprinkle with sugar mixture.

Roll as for jelly roll. Place on greased bun pans in strips about 22 inches long.

Baking: Bake in moderate oven (375° F.) about 30 minutes.

Serving: Cut roll into 1½- to 2-inch thick slices. Serve with Cherry Sauce (page 73), Hard Sauce (page 73), or Lemon Sauce (page 73).

Note.—Roll can be cut into 2-inch slices, placed cut side down in greased muffin tins, and baked.

Variations

Berry Roll

Use berries, fresh or canned, in place of cherries.

Cherry Cobbler

Mix drained, pitted cherries with sugar and cinnamon. Place in greased baking pans. Cover with biscuit dough.

Bake in moderate oven (375° F.) about 30 minutes.

PLAIN CORN PONE OR DODGERS

Yield: Approx. 26½ pounds.

Portion: 2 pones.

		100 PC	ORTIONS	MIXING METHOD	
Ingredients	WEIG	GHTS	AMOUNTS (approx.)		Portions
Corn meal	Pounds 12	Ounces 	21/4 gallons		
Salt		4	½ cup	Mix ingredients together thoroughly.	
Shortening	1	2	21/4 cups		•••••
Water, boiling	13		6½ quarts	Stir in rapidly. Cool	

Make-up: Drop by spoonful scaling about 2 ounces each and placing about 2 inches apart onto greased pans. Flatten to $\frac{1}{2}$ inch thickness.

Baking: Bake at 425° F. for 30 minutes.

NOTE.—Batter may be dropped out of bag and tube onto pan for baking.

BRAN PAN BREAD

Yield: Approx. 18 pounds.

Portion: 2 pieces, 2 x 3 inches.

Ingredients	100 PORTIONS			Manual Manual	Danner
	WEI	GHTS	Amounts (approx.)	MIXING METHOD	Portions
Shortening	Pounds 1	Ounces	1 pint	Blend together shortening	
Sugar	1		1 pint	and sugar.	
Eggs, whole	1	10	16 (15% pints)	Add eggs and beat well	
Bran, prepared	2		1 gallon	Cook been in mills and add	
Milk, liquid (variable).	8		1 gallon	Soak bran in milk and add.	
Flour	4	•	1 gallon	Sift flour, salt and baking	
Salt		21/2	5 tablespoons	powder. Add to first mixture. Stir only until	
Baking powder	••••	6	1 cup	all flour is dampened.	

Make-up: Pour into greased baking pans, scaling about $4\frac{1}{2}$ pounds per bun pan.

Baking: Bake at 375° F. for 35 minutes.

Serving: Serve hot.

Note.— $6\frac{1}{2}$ ounces powdered eggs and 1 pound $3\frac{1}{2}$ ounces ($2\frac{1}{2}$ cups) water may be used in place of the 1 pound 10 ounces eggs.

Yield: Approx. 351/2 pounds.

Portion: 2 slices 3/8-inch thick.

	100 PORTIONS			Manual Manual	Portions
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Flour, graham	Pounds 2	Ounces 4	2¼ quarts		
Flour, rye	2	4	21/4 quarts		
Cornmeal	3		2½ quarts	Blend together thoroughly.	
Baking, soda		2½	5 tablespoons	Biend together thoroughly.	
Salt		21/2	5 tablespoons		
Sugar, brown	3		1½ quarts		
Sugar	3	=	1½ quarts	Carmelize by heating in pan over direct heat until melted	
				and browned. Stir constantly to avoid burning.	
Milk, liquid	18		2¼ gallons	Stir into carmelized sugar. Add to dry ingredients.	
				Mix to form a smooth batter.	
Vinegar	1		1 pint	Add	
Raisins	3		21/4 quarts	Stir into batter	

Make-up: Fill greased molds about $\frac{2}{3}$ full. Cover.

Baking: Place in steamer. Steam about 3 hours.

Note.—1. If bread molds are not available,

thoroughly cleaned empty No. 2 or No. $2\frac{1}{2}$ cans with the top cut off may be used.

2. Bread may be baked if steamer is not available. Cover molds. Place in suitable pan containing $\frac{1}{2}$ inch water. Bake in moderate oven (375° F.) $1\frac{1}{2}$ hours.

Yield: Approx. 243/4 pounds.

Portion: 2 pieces, 2 x 3 inches.

	100 PORTIONS				
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Flour	Pounds 5	Ounces 	11/4 gallons		
Shortening	2	4	11/8 quarts		
Baking powder	••••	9	1½ cups	blend ingredients together	
Sugar	2	••••	1 quart	thoroughly.	
Salt		1	2 tablespoons		
Corn meal	4	12	3½ quarts		
Eggs, whole	1	4	12 (11/4 pints).		
Milk, liquid (variable).	9		1½ gallons	and mix to a smooth bat- ter.	

Make-up: Spread in greased bun pans, scaling about 6 pounds per bun pan.

Baking: Bake at 425° F. for 25 to 30 minutes.

Note.— $4\frac{3}{4}$ ounces powdered eggs and $15\frac{1}{4}$ ounces ($1\frac{3}{4}$ cups) water may be used in place of the 1 pound 4 ounces eggs.

Portion: 2 dumplings.

DUMPLINGS

Yield: Approx. 13 pounds.

			ORTIONS		
Ingredients	WEIGHTS AMOUNTS (approx.)			MIXING METHOD	Portions
Flour	Pounds 6	Ounces	1½ gallons		
Baking powder	•	41/2	3/4 cup	Blend together thoroughly.	•••••••••••••••••••••••••••••••••••••••
Salt	••••	21/4	4½ tablespoons	Biena together thoroughly.	
Shortening		4	½ cup		
Milk, liquid (variable).	6	4	31/8 quarts	Add and mix to soft dough	

Make-up: Scale in 1 ounce dumplings. Drop on boiling stew or on lightly greased steamer tray. Cover tightly.

Cook 10 minutes or until dumplings are done.

Variation

Tomato Dumpling

Use 6½ pounds (¾ gallon) tomato juice in place of 6½ pounds (3½ quarts) milk.

Yield: Approx. 241/2 pounds.

Portion: 2 pieces, 2 x 3 inches.

	100 PORTIONS			Manual Ma	Depressor
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	PORTIONS
Flour	Pounds 7	Ounces 8	7½ quarts		
Baking powder	•	1	2½ tablespoons		
Soda		2	½ cup		
Salt		1	2 tablespoons	$\left. \left. \right. \right. \right.$ Mix together thoroughly.	
Ginger		2	10 tablespoons.		
Cinnamon		1	½ cup		
Sugar	2		1 quart		
Shortening	1	12	3½ cups	Mix in.	
Eggs, whole		12	8 (¾ pint)		
Molasses	8		3/4 gallon	Stir together. Add and mix smooth.	
Water	4		½ gallon		

Make-up: Scale about 6 to 7 pounds in greased and floured bun pan.

Baking: Bake at 375° F. for 35 to 45 minutes.

Note.—3 ounces powdered eggs and 9 ounces $(1\frac{1}{8})$ cups) water may be used in place of the 12 ounces eggs.

MEAT PIE CRUST

Yield: Approx. 13 pounds.

Ingredients	100 PORTIONS			MIXING METHOD	Donmyova
INGREDIENTS .	WEI	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Flour	Pounds 6	Ounces 12	15% gallons		
Baking powder		41/2	3/4. cup	Sift together dry ingredients.	
Salt		1	2 tablespoons		
Shortening	3	8	1¾ quarts	Work in shortening until mixture is as fine as corn meal.	
Milk, liquid (variable).	2	8	11/4 quarts	Add milk all at once. Mix thoroughly.	

Make-up: Roll dough to a thickness of 1/4 inch. Place on meat pie to completely cover top

of pie. Cut slits to allow steam to escape. *Baking:* Bake at 450° F. for 20 minutes.

QUICK BUCKWHEAT GRIDDLE CAKES

Yield: Approx. 491/4 pounds.

Portion: 4 griddle cakes.

Lyappyrya	100 PORTIONS				
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	PORTIONS
Flour, buck- wheat.	Pounds 11	Ounces 4	23/4 gallons		
Flour	5	12	11/4 gallons		
Baking powder		12	1 pint	Sift together flours, baking powder and salt. Com-	
Salt	••••	31/4	6½ tablespoons	bine with shortening.	
Shortening	1	12	3½ cups		
Eggs, whole, well beaten.	2		20 (1 quart)	Combine eggs and milk.	
Milk, liquid (variable).	27	8	$3\frac{1}{3}$ gallons	Add to flour mixture. Stir only until smooth.	

Baking: Bake on hot griddle. Bake on one side until firm around edge and full of bubbles. Turn and finish baking.

Note.—8 ounces powdered eggs and 1 pound 8 ounces ($1\frac{1}{2}$ pints) water may be used in place of 2 pounds eggs.

WHEAT GRIDDLE CAKES

Yield: Approx. 44½ pounds.

Portion: 4 griddle cakes.

	100 PORTIONS			Mayaya Mamayan	
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	PORTIONS
Flour	Pounds 15	Ounces	3¾ gallons		
Baking powder		12	1 pint	Sift together flour, baking	
Salt		3	6 tablespoons	powder, salt and sugar. Mix with shortening.	
Sugar	1	8	1½ pints		
Shortening	1	12	3½ cups		
Eggs, whole, well beaten. Milk, liquid	1 24	4		Combine eggs and milk. Add to flour mixture. Stir only until smooth.	
(variable).					

Baking: Bake on hot griddle. Bake on one side until firm around edge and full of bubbles. Turn and finish baking.

Note.— $4\frac{3}{4}$ ounces powdered eggs and $15\frac{1}{4}$ ounces ($1\frac{3}{4}$ cups) water may be used in place of 1 pound 4 ounces eggs.

WHOLE WHEAT GRIDDLE CAKES

Yield: Approx. 443/4 pounds.

Portion: 4 griddle cakes.

Ingredients	100 PORTIONS			MIXING METHOD	Portions
INGREDIENTS	WEI	GHTS	Amounts (approx.)	MIXING METHOD	FORTIONS
Flour	Pounds 8	Ounces	2 gallons		
Baking powder	••••	12	1 pint		
Salt		11/4	2½ tablespoons	Sift together flour, baking powder, salt, and sugar.	
Sugar		8	1 cup	Mix with whole wheat flour and shortening.	
Flour, whole wheat.	8		2 gallons		
Shortening	1	12	3½ cups		
Eggs, whole, well beaten.	1	10	16 (15% pints)	Combine eggs and milk. Add to flour mixture.	
Milk, liquid (variable).	24		3 gallons	Stir only until smooth.	

Baking: Bake on hot griddle. Bake on one side until firm around edge and full of bubbles. Turn and finish baking.

Note.—8 ounces powdered eggs and 1 pound 8 ounces ($1\frac{1}{2}$ pints) water may be used in place of 2 pounds eggs.

CORN GRIDDLE CAKES

Yield: Approx. 381/2 pounds.

Portion: 4 griddle cakes.

Ingredients	100 PORTIONS			MIXING METHOD	Portions		
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	FORTIONS		
Flour	Pounds 6	Ounces 12	6¾ quarts				
Baking powder		9	3/4 pint				
Salt		21/2	5 tablespoons	Sift together flour, baking powder, salt and sugar.			
Sugar	1	12	3½ cups	Mix with corn meal and shortening.			
Corn meal	6	12	11/4 gallons		•••••••••••••••••••••••••••••••••••••••		
Shortening	1	12	3½ cups				
Eggs, whole, well beaten.	2	12	27 (23/4 pints).	Combine eggs and milk. Add to flour. Stir only			
Milk, liquid (variable).	18		2½ gallons				

Baking: Bake on hot griddle. Bake on one side until firm around edge and full of bubbles. Turn and finish baking.

Note.—12 ounces powdered eggs and 2 pounds (1 quart) water may be used in place of 2 pounds 12 ounces eggs.

MUFFINS

Yield: Approx. 231/4 pounds.

Portion: 2 muffins.

Lycopolynyma	100 PORTIONS			MIXING METHOD	Portions
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Flour	Pounds 9	Ounces 	21/4 gallons		
Baking powder	••••	9	1½ cups	Citi to all a constant	
Sugar	3	12	2½ quarts	Sift together flour, baking powder, sugar and salt.	
Salt	[-u-"	11/2	3 tablespoons	Mix with shortening.	
Shortening	2	12	5½ cups		
Eggs, whole, well beaten.	1	12	18 (1¾ pints)	Combine eggs, milk, and va-	
Milk, liquid (variable).	7	12	37/8 quarts	milla. Add to flour mixture. Mix to a soft batter.	
Vanilla		1	2 tablespoons		

Make-up: Fill greased muffin tins 2/3 full.

Baking: Bake at 400° F. for 25 to 30 minutes.

Note.—7 ounces powdered eggs and 1 pound 5 ounces (21/2 cups) water may be used in place of 1 pound 12 ounces eggs.

Variations

Apricot Muffins

Add 1 pound $(1\frac{1}{2})$ pints) finely cut, dried apricots to batter.

Date Muffins

Add $1\frac{1}{4}$ pounds ($1\frac{1}{2}$ pints) finely cut dates to batter.

Nut Muffins

Add 12 ounces $(1\frac{1}{2})$ pints) chopped nuts to batter.

Raisin Muffins

Add 1 pound (1½ pints) raisins to batter.

Yield: Approx.	28¾ p	ounds.		Po	ortion: 2 muffins.
		100 PC	ORTIONS		Depressed
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Bran, prepared	Pounds 4	Ounces 	2 gallons		
Molasses	5	12	½ gallon	Soak bran in molasses and milk 15 minutes.	
Milk, liquid (variable).	13		6½ quarts		
Eggs, whole	1	10	16 (15% pints)	Stir in beaten eggs. Mix well.	
Flour	4		1 gallon	Sift together flour, salt, and	
Salt	••••	11/2	3 tablespoons	soda. Add to bran mix- ture. Stir only until all	
Soda		21/4	5 tablespoons	flour is dampened. Stir in shortening.	

1½ cups

Make-up: Fill greased muffin pans about 2/3 full.

12

Shortening,

melted.

Baking: Bake at 425° F. for 25 minutes.

Note.—1. 6½ ounces powdered eggs and $19\frac{1}{2}$ ounces (2½ cups) water may be used in place of 1 pound 10 ounces eggs.

2. 4 pounds 10 ounces (3/4 gallon) brown sugar and 1 pound 4 ounces (2½ cups) water may be used in place of 5 pounds 12 ounces molasses.

CREAM PUFFS AND ECLAIRS

Yield: Approx. 10 pounds.

Portion: 1 cream puff or eclair.

Ingredients	100 PORTIONS			Vancous Manager	
	WEIGHTS		Amounts (approx.)	MIXING METHOD	Portions
	Pounds	Ounces			
Shortening	1	8	1½ pints	Combine. Heat to a vigorous	
Water	3	- 2	1½ quarts	boil.	
Flour	2	4	2½ quarts	Combine. Stir in steadily boiling water and shorten-	
Salt		1	2 tablespoons	ing mixture.	
Eggs, whole	3	4	32 (1½ quarts)		

Make-up: Cook flour mixture, stirring constantly, until mixture leaves sides of cooking vessel in smooth, compact mass.

Cool mixture to about 160° F. Add eggs, 1 or 2 at a time, beating after each addition until thoroughly blended.

Drop 1½ ounces batter, approximately the size of a walnut, from pastry bag onto lightly greased baking sheets.

Baking: Bake in hot oven (400° F.) 20 to 30 minutes or until light brown.

Serving: Cool. Fill with Chocolate Cream (page 416), Butterscotch Cream (page 416), or Vanilla Cream (page 415)

NOTE.—1. 13 ounces powdered eggs and $1\frac{1}{2}$ quarts water may be used in place of 3 pounds 4 ounces eggs.

2. Mixture may be shaped with machine depositor or by dropping with No. 20 ice cream scoop.

Yield: Approx. 28½ pounds.

Portion: Approx. 4 ounces.

	100 PORTIONS			Mayang Magayon	D
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Flour	Pounds 2	Ounces	½ gallon		
Baking powder.		2	5 tablespoons		
Soda		3/4	4 teaspoons	Sift together.	
Cinnamon		1	1/4 cup		
Nutmeg		1/4	1 tablespoon		
Sugar, brown	3		2½ quarts		
Bread crumbs	2	8	¾ gallon		
Apples, chopped.	1		1 quart		
Mixed fruits, glazed.	1	8	4½ cups	Add to flour mixture.	
Milk, liquid	4		½ gallon	}	
Eggs, whole	1	8	15 (1½ pints)	Mix thoroughly.	
Molasses	2	12	1 quart		
Raisins, seedless.	1	8	4½ cups		
Nuts, chopped	1	8	1½ quarts		

Make-up: Fill greased pudding molds \(^2\)_3 full. Cover securely.

Baking: Place in steamer. Steam 1 to $1\frac{1}{2}$ hours. Remove from steamer. Allow to cool in molds.

Serving: Cut in 3/4-inch slices. Serve with Hard Sauce (page 73).

Note.—1. Filled pudding molds may be placed in water bath on range and boiled slowly 1 to $1\frac{1}{2}$ hours.

2. Mincemeat or canned fruits, drained, or dried fruits, cooked and thoroughly drained, may be used as mixed fruit.

Cakes

Production Pointers

Cakes Requiring Chemical Leavening Ingredients to Produce Proper Lightness: The function of the mixing process is to properly blend ingredients and to build up a cellular structure which will expand during baking and produce cakes with desired volume, grain and texture.

Much work and experimentation has been done to develop cake mixing methods which accomplish this with a minimum of time and effort. The result is the "simplified cake mixing method" specified in the following formulas for layer cakes.

1. Simplified Cake Mixing Method: This method essentially consists of blending all dry ingredients with eggs and part of milk to produce a smooth batter and then gradually incorporating remaining milk. First speed of a 3-speed machine, or second-speed of a 4-speed mixing machine are usually used in putting batters together.

Mixing time required, using this simplified method, is about 7 minutes.

The temperature of all ingredients should be about 75° F.

Cold shortening may give a lumpy batter because it will not blend uniformly with other ingredients.

Cold milk or eggs produce a stiff batter which results in cakes that have poor volume or split during baking.

Warm batters produce cakes with poor volume and a grain in which tunnels and large holes are formed during baking.

For best results, cake batters should be mixed at temperatures between 60° F. and 85° F. A temperature of 75° F. gives best results.

Cool The Ingredients

In warm locations where outside temperatures may be 100° F. or more, it is possible when refrigeration is available, to cool ingredients to desired temperature.

Milk and eggs can be refrigerated so that when added to other ingredients, the resultant batter is at proper temperature. Dried milk, reconstituted double strength and diluted with equal parts of cracked ice, or evaporated milk diluted with cracked ice, can be added to the cake ingredients to produce batters of proper temperature. As ice melts, the warm ingredients cool down to desired mixing temperature.

Cakes Requiring Incorporation of Air for Proper Lightness: Pound cakes, in general, are mixed in the same way as layer cakes except that higher mixing speeds are used. This is necessary in order to incorporate more air into the batter.

Pound cakes may contain little or no baking powder and their lightness depends upon the amount of air incorporated during mixing. Second speed on a 3-speed machine, or third speed on a 4-speed mixing machine are used in making pound cake.

Pound cake batters which are too cold or too warm will not incorporate air in the desired amounts. It is practically impossible to produce good pound cake if batter temperature is above 85° F. or less than 60° F.

Cakes Dependent upon the Development of Egg Structure for Proper Volume:

Sponge Cakes

Sponge cakes may contain little or no baking powder and depend upon the development of egg structure for their lightness. Eggs and sugar can be whipped to their maximum lightness at a temperature of approximately 120° F. It is difficult to make good sponge cake with cold ingredients.

The foam structure which has been built up by whipping or beating sugar and eggs must be carefully incorporated with the remaining ingredients. Two methods are usually employed:

- 1. Build the egg structure first and add other ingredients; OR
- 2. Blend other ingredients and fold in the sugar and egg structure.

Either method gives satisfactory results.

2. Hand Mixing: Cake batters up to 25 pounds in weight can be put together by blending the ingredients by hand. The same general method outlined in the formulas should be followed. Blend ingredients sufficiently to produce a smooth, light batter.

Batters mixed by hand require a longer mixing time than do batters mixed by machine.

SCALING AND BAKING CAKE

Түре	SCALING WEIGHT		PAN SIZE	BAKING TEMPERATURE	BAKING TIME
	Pounds	Ounces	Inches		Minutes (approx.)
Layer		12 to 14	8	375°F	22
Layer		9 to 11	7	375°F	21
Layer		6 to 8	6	375°F	20
Layer	6 to 7	••••	Sheet pan 18x25	375°F	22
Cup	. 1 (per doz.)		1½	375°F. to 400°F	15
Loaf		12 to 14	7½x3½x2¼	375°F. to 400°F	30
Ring		12 to 14	6 (Ring pan)	375°F. to 400°F	25
Pound	3	•••••	6x11	300°F. to 330°F	110
Pound	1		7½x3½x2¼	350°F	50
Sponge		8	8	375°F	15
Sponge	•	7	7	375°F	14
Sponge	•	4 to 6	6	375°F	13
Sheet	. 3		18x25	375°F.	20
Jelly Roll	. 2		18x25	375°F	18
Angel Food	***************************************	8	6 (Ring pan)	325°F	30

Batch sizes.—The batter yields of the cake formulas range from 12 pounds for Angel Food Cake to 50 pounds for Fruit Cake.

Yield: Approx. 181/4 pounds.

Portion: Approx. 3 ounces.

	100 PORTIONS				
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	Portions
Flour	Pounds 5	Ounces	11/4, gallons		
Shortening	2	4	11/8 quarts		
Sugar	5	••••	2½ quarts	Blend together 3 to 5 min-	
Salt	••••	3	6 tablespoons		
Baking powder		3¾	10 tablespoons	second speed on a 4-speed machine.	
Milk, liquid	1	8	1½ pints		
Eggs, whole	2	4	22 (11/8 quarts)		
Milk, liquid	2	4	11/8 quarts	Add and blend 2 to 3 min-	
Vanilla		1	2 tablespoons	utes, using low speed on a 3-speed machine or second on a 4-speed machine.	

Make-up: See page 379 for scaling weights. Use for layer, loaf, ring, sheet and cup cakes. Baking: Bake at 375° F. to 400° F.

Note.—10 ounces powdered eggs and 1 pound 10 ounces $(3\frac{1}{4})$ cups) water may be used in place of 2 pounds 4 ounces eggs.

BASIC WHITE CAKE

Yield: Approx. 19 pounds.

Portion: Approx. 3 ounces.

	100 PORTIONS			Maurica Manayon	Portions
Ingredients	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	FURTIONS
Flour	Pounds 5	Ounces	11/4 gallons		
Shortening	2	4	11/8 quarts		
Sugar	5	•	•2½ quarts	Blend together 3 to 5 min-	
Salt		3	6 tablespoons	utes, using low speed on a 3-speed machine, or sec-	
Milk, liquid	1		1 pint	ond on a 4-speed machine.	
Baking powder		33/4	10 tablespoons		
Egg whites	3		1½ quarts		
Milk, liquid	2	4	11/8 quarts	Add and blend 2 to 3 min- utes, using low speed on a	***************************************
Vanilla		1	2 tablespoons	,	

Make-up: See page 379 for scaling weights. Use for layer, loaf, ring, sheet and cup cakes. Baking: Bake at 375° F. to 400° F.

NOTE.—5 ounces powdered egg white and 2 pounds 11 ounces ($1\frac{3}{8}$ quarts) water may be used in place of 3 pounds egg whites.

Variations

Boston Cream Pie

Make-up: Bake basic yellow or white cake in sheets. Cool. Spread sheets generously with Cream Filling (page 415) or Chocolate Cream Filling (page 416). Place a second sheet on top. Sprinkle with powdered sugar or ice with Marshmallow Icing (page 395). Cut and serve.

Chocolate Squares

Make-up: Bake basic yellow, white or chocolate cake in sheets. Ice finished cakes with

Cocoa Cream Icing (page 392) or Chocolate Fudge Icing (page 392). Cut and serve.

Coconut Squares

Make-up: Bake basic yellow, white or chocolate cake in sheets. Ice with Marshmallow Icing (page 395). Sprinkle top with coconut. Cut and serve.

Pineapple Upside Down Cake

Make-up: Grease cake pans, extra heavy, using part butter if desired. Sprinkle bottom with brown sugar. Place drained sliced or crushed pineapple on bottom. Pour in yellow cake batter using 10 ounces for an 8-inch cake pan.

Baking: Bake at 375° F. Dump cakes from pans while warm.

Note.—Sliced peaches, halved apricots, sliced apples and other fruits may be used to make a variety of upside down cakes.

Yield: Approx. 221/4 pounds.

BANANA CAKE

Portion: Approx. 3 ounces.

Ingredients	100 PORTIONS			Managa Managa	Portions		
	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	OKTIONS		
Flour	Pounds 4	Ounces 8	4½ quarts				
Shortening	1	12	3½ cups				
Sugar	6	****	3/4 gallon	Blend together 3 to 5 min- utes, using low speed on a			
Salt		3	6 tablespoons				
Baking powder		4	10 tablespoons				
Bananas, ripe	4	••••	12 to 16 bananas				
Eggs, whole	3	8	35 (13/4 quarts)				
Milk, liquid	2		1 quart	Add and blend together 2 to 3 minutes, using low speed			
Vanilla		1	2 tablespoons	on a 3-speed machine or second speed on a 4-speed machine.	***************************************		

Make-up: See page 379 for scaling weights. Use for layer, loaf, sheet, ring and cup cakes. Baking: Bake at 375° F. to 400° F.

Note.—1. 1 pound powdered eggs and 2 pounds 8 ounces ($1\frac{1}{4}$ quarts) water may be used in place of 3 pounds 8 ounces eggs.

2. Bananas, because they discolor fairly rapidly, should not be peeled until just before placing in mixer. Fully ripe bananas, flecked with brown, do not discolor as quickly as those with all yellow peel or deep green tip. Fully ripe bananas also have a richer, sweeter flavor.

Yield: Approx. 211/4 pounds.

Portion: Approx. 3 ounces.

Ingredients	100 PORTIONS				
INGREDIENTS	WEI	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Flour	Pounds 5	Ounces	11/4 gallons		
Shortening	2	4	4½ cups		
Sugar	4	8	21/4 quarts		
Soda		1	2 tablespoons		
Baking powder		2	5 tablespoons	Blend together 3 to 5 min- utes, using low speed on a	
Cinnamon		1/2	2 tablespoons	3-speed machine, or sec-	
Cloves		1/2	2 tablespoons	ond speed on a 4-speed machine.	
Salt		3	6 tablespoons		
Eggs, whole	1	4	13 (1½ pints)		
Raisins	2	4	1¾ quarts		
Applesauce	3		1½ quarts	d l	
Applesauce	2	8	1¼ quarts	Add and blend 2 to 3 min- utes, using low speed on a	
Vanilla		1	2 tablespoons		

Make-up: See page 379 for scaling weights. Use for layer, loaf, sheet, ring and cup cakes. Baking: Bake at 375° F. to 400° F.

Note.—6 ounces powdered eggs and 14 ounces (13/4 cups) water may be used in place of 1 pound 4 ounces eggs.

Yield: Approx. 181/4 pounds.

Portion: Approx. 3 ounces.

	100 PORTIONS			YY	Portions
Ingredients	WEIGHTS		Amounts (approx.)	MIXING METHOD	
Flour	Pounds 5	Ounces	11/4 gallons		
Shortening	2	4	11/8 quarts		
Sugar, brown	5	••••	33/4 quarts	Blend together 3 to 5 min- utes, using low speed on	
Salt		3	6 tablespoons	a 3-speed machine, or sec-	
Baking powder		33/4	10 tablespoons	ond speed on a 4-speed machine.	
Milk, liquid	1	8	1½ pints		
Eggs, whole	2	4	22 (1½ quarts)		
Milk, liquid	2	4	11/8 quarts	Add and blend 2 to 3 min- utes, using low speed on a	
Maple flavor		1	2 tablespoons		

Make-up: See page 379 for scaling weights. Use for layer, loaf, sheet, ring and cup cakes. Baking: Bake at 375° F. to 400 F.

Note.—10 ounces powdered eggs and 1 pound 10 ounces $(3\frac{1}{4} \text{ cups})$ water may be used in place of 2 pounds 4 ounces eggs.

Yield: Approx. 211/2 pounds.

Portion: Approx. 3 ounces.

	100 PORTIONS			The Blueschill T	
Ingredients	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	Portions
Flour	Pounds 5	Ounces	11/4 gallons		
Shortening	2	4	11/8 quarts		
Sugar	2	8	11/4 quarts		
Sugar, brown	2	8	15/8 quarts		
Salt	1	3	6 tablespoons		
Baking powder	·	33/4	10 tablespoons	ond speed on a 4-speed machine.	
Milk, liquid	1	8	1½ pints		
Eggs, whole	2	4	22 (11/8 quarts)		
Cake crumbs	3	••••	21/4 quarts		
Milk, liquid	2	8	11/4 quarts	Add and blend 2 to 3 min-	<u> </u>
Vanilla		1	2 tablespoons	utes, using low speed on a 3-speed machine or sec-ond speed on a 4-speed machine.	

Make-up: See page 379 for scaling weights. Use for layer, loaf, ring, sheet and cup cakes. Baking: Bake at 375° F. to 400 F.

Note.—10 ounces powdered eggs and 1 pound 10 ounces ($3\frac{1}{4}$ cups) water may be used in place of 2 pounds 4 ounces eggs.

Yield: Approx. 231/2 pounds.

Portion: Approx. 3 ounces.

	100 PORTIONS				Portions
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	TORTIONS
Flour	Pounds 5	Ounces	1½ gallons		
Shortening	2	4	11/8 quarts		
Sugar	7	****	3½ quarts		
Cocoa	1	4	11/4 quarts	Blend together 3 to 5 min- utes, using low speed on	
Soda		21/2	5 tablespoons	a 3-speed machine, or	
Baking powder		21/2	61/4 tablespoons	second speed on a 4-speed machine.	
Salt		3	6 tablespoons		
Eggs, whole	3		30 (1½ quarts)		
Milk, liquid	2	8	11/4 quarts		
Milk, liquid	3		1½ quarts	Add and blend 2 to 3 min-	
Vanilla		1	2 tablespoons	utes, using low speed on a 3-speed machine, or sec-ond speed on a 4-speed machine.	

Make-up: See page 379 for scaling weights. Use for layer, loaf, ring, sheet and cup cakes. Baking: Bake at 375° F. to 400 F.

Note.—12 ounces powdered eggs and 1 pound 12 ounces $(3\frac{1}{2} \text{ cups})$ water may be used in place of 2 pounds 8 ounces eggs.

Yield: Approx. 181/4 pounds.

Portion: Approx. 3 ounces.

Y	100 PORTIONS				
Ingredients	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	Portions
Flour	Pounds 5	Ounces 	11/4 gallons		
Shortening	2	4	11/8 quarts		
Sugar	2	8	11/4 quarts		4
Sugar, brown	2	8	15/8 quarts	Blend together 3 to 5 min- utes, using low speed on a	
Salt		3	6 tablespoons		••••••
Baking powder		33/4	10 tablespoons		
Milk, liquid	1	8	1½ pints		
Eggs, whole	2	4	22 (11/8 quarts)		••••
Spice mix		13/4	½ cup		
Milk, liquid	2	4	11/8 quarts	Add and blend 2 to 3 min- utes, using low speed on a	
Vanilla		1	2 tablespoons		

Make-up: See page 379 for scaling weights. Use for layer, loaf, ring, sheet, and cup cakes. Baking: Bake at 375° F. to 400° F.

NOTE—1. Spice mix: Blend together 1 ounce

cinnamon with ¼ ounce mace, ½ ounce ginger, ¼ ounce nutmeg and ½ ounce allspice.

2. 10 ounces powdered eggs and 1 pound 10 ounces (3½ cups) water may be used in place of 2 pounds 4 ounces eggs.

YELLOW POUND CAKE

Yield: Approx. 201/4 pounds.

Portion: Approx. 3 ounces.

		100 PC	RTIONS	NN	
Ingredients	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	Portions
Flour	Pounds 5	Ounces 	1½ gallons		
Shortening	3		1½ quarts		
Sugar	6	1	3/4 gallon	Dland tagether thereughly	
Baking powder		1	2½ tablespoons	ond speed on a 3-speed machine, or third speed	
Salt		3	6 tablespoons		A CONTRACTOR OF THE PROPERTY O
Nutmeg	••••	1/2	2 tablespoons	on a 4-speed machine.	
Eggs, whole	3		30 (1½ quarts)		
Milk, liquid	1	8	1½ pints		
Milk, liquid	1	8	1½ pints	Add and blend together 5 to	
Vanilla		1	2 tablespoons	8 minutes, using second speed on a 3-speed machine, or third speed on a 4-speed machine.	

Make-up: See page 379 for scaling weights. for pound cake units.

Baking: Bake at 330° F. to 350° F.

NOTE.—14 ounces powdered eggs and 2 pounds 2 ounces $(4\frac{1}{4} \text{ cups})$ water may be used in place of 3 pounds eggs.

Yield: Approx. 191/2 pounds.

Portion: Approx. 3 ounces.

	100 PORTIONS				
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Flour	Pounds 5	Ounces 	1½ gallons		
Shortening	2	8	11/4 quarts		
Sugar	5		2½ quarts	Blend together 5 to 7 min-	
Salt		3	6 tablespoons	utes, using second speed on a 3-speed machine or	
Baking powder		2	5 tablespoons	third speed on a 4-speed machine.	
Egg whites	3	••••	1½ quarts		
Milk, liquid	1	8	1½ pints	}	
Milk, liquid	2	****	1 quart	Add and blend 2 to 3 min-	
Vanilla		1	2 tablespoons	on a 3-speed machine or third speed on a 4-speed machine.	

Make-up: See page 379 for scaling weights for pound cake units.

Baking: Bake at 330° F. to 350° F.

Note.—5 ounces powdered egg white and 2 pounds 11 ounces ($1\frac{3}{8}$ quarts) water may be used in place of 3 pounds egg whites.

Pound Cake Variations

Raisin Pound Cake

Make-up: Mix together 3 pounds (21/4 quarts) raisins with 8 ounces (1 pint) flour and blend into either the Yellow Pound Cake (page 387) or the White Pound Cake batters.

Scale about 20% heavier than ordinary Pound Cake to give cakes of comparable volume.

Baking: Bake at the same temperature as regular Pound Cake.

Nut Pound Cake

Make-up: Mix 2 pounds (1½ quarts) of chopped or shaved nuts into either the Yellow Pound Cake (page 387) or the White Pound Cake batters.

Scale about 10% heavier than ordinary Pound Cake to give cakes of comparable volume.

Baking: Bake at the same temperature as regular Pound Cake.

Light Fruit Cake

Make-up: Blend together 20 to 30 pounds of mixed fruits, nuts, and raisins. Incorporate in Yellow Pound Cake (page 387) batter.

Scale 50% heavier than Yellow Pound Cake to give cakes of comparable volume.

Baking: Bake at temperature about 30° F. lower than temperature for comparable Pound Cake units. Increase baking time about 75%.

Dark Fruit Cake

Make-up: Blend together 1 pound dark molasses and 20 to 30 pounds of mixed fruits, nuts and raisins. Incorporate in Yellow Pound Cake (page 387) batter.

Scale 50% heavier than Yellow Pound Cake to give cakes of comparable volume.

Baking: Bake at temperature about 30° F. lower than temperature for comparable Pound Cake units. Increase baking time about 75%.

Note.—12 ounces (1½ pints) cocoa or 12 ounces melted chocolate may be used in place of molasses to produce a Dark Fruit Cake.

WEDDING CAKES

Use White Pound Cake (page 388) or Light Fruit Cake (page 388) for making Wedding Cakes. Either cake is traditional for Wedding Cakes.

Make-up: Build up different size layer cakes into tiers to form a finished cake of the desired size and symmetry.

For a cake of good symmetry, use 2 (14-inch) layers for the first tier; 2 (10-inch) layers for the second tier; and 2 (6-inch) layers for the top or third tier.

Use scaling weights in Table III for making cakes suitable for building into Wedding Cakes.

Table III.—WHITE POUND CAKE AND LIGHT FRUIT CAKE

WHITE POUND CAKE							LIGHT FRUIT CAKE			
	Pan Size Inches	SCALING WEIGHT (approx.)		Baking Temperature (approx.)	BAKING TIME, Minutes (approx.)	Scaling Weight (approx.)		BAKING TEMPERATURE (approx.)	BAKING TIME, Minutes (approx.)	
6		Pounds	Ounces 8	360° F.	15	Pounds	Ounces 12	350° F.	25	
7			11	360° F.	20	1		350° F.	40	
8		1		360° F.	25	1	8	330° F.	60	
9		1	8	350° F.	35	2	4	300° F.	80	
10		2		350° F.	50	3		300° F.	90	
14		5	••••	330° F.	90	7	8	300° F.	130	

ANGEL FOOD

Yield: Approx. 12½ pounds.

Portion: Approx. 2 ounces.

		100 PC	RTIONS		
INGREDIENTS	WEIG	GHTS	Amounts (approx.)	MIXING METHOD	Portions
Sugar	Pounds 2	Ounces 8	1½ quarts		
Egg whites	5		2½ quarts	Whip together to a light froth.	
Vanilla Sugar	2	8	1 tablespoon 11/4 quarts		
Flour	2	4		Sift together 3 times. Fold	
Salt		11/2	3 tablespoons	by hand into egg white-sugar mixture.	
Cream of tartar		11/4	31/3 tablespoons		

Make-up: See page 379 for scaling weights for ring and loaf cakes.

Baking: Bake at 325° F. to 350° F.

NOTE.—8 ounces powdered egg white and 4 pounds 8 ounces ($2\frac{1}{4}$ quarts) water may be used in place of 5 pounds egg whites.

Yield: Approx. 191/2 pounds.

Portion: Approx. 3 ounces.

	HT.	100 PC	PRTIONS		
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	Portions
Eggs, whole	Pounds 6	Ounces	60 (3/4 gallon)		
Sugar	6	•	3/4 gallon	Combine ingredients. Beat	
Vanilla		1	2 tablespoons	lightly.	
Salt		2	½ cup		
Water, warm (110° F.).	2		1 quart	Mix in slowly	
Flour	5		11/4 gallons	Sift together and fold in. Do not break down struc-	
Baking powder		3	½ cup		

Make-up: See page 379 for scaling weights. Use for layer, loaf, sheet, ring and cup cakes.

Baking: Bake at 375° F. to 400° F.

Variations

Jelly Roll

Make-up: Scale 2 to 3 pounds batter into a 16x26-inch bun pan.

Baking: Bake at 375° F.

Finishing: Dump on sugared cloth or paper. Spread with jelly, jam or filling. Roll up. Cool. Remove cloth or paper. Slice and serve.

Cream Roll

Make-up: Make up and bake as for Jelly Roll.

Finishing: Allow cake to cool before spreading with Cream Icing (page 392) or Chocolate Cream Icing (page 393). Roll as for Jelly Roll.

NOTE.—1. $1\frac{3}{4}$ pounds powdered eggs and 4 pounds 4 ounces ($2\frac{1}{8}$ quarts) water may be used in place of 6 pounds eggs.

2. Eggs and sugar whip up best when warmed to 120° F.

Cake Icings

Types of Icings

- 1. Fudge type icing
- 2. Cream icing
- 3. Fondant cream icing
- 4. Marshmallow icing

Proper Use of Icings

Ice cakes carefully to give best appearance and flavor.

Have cakes cooled to room temperature before icing.

Use a liberal quantity of icing.
Use icings at proper temperature.

Storage: Store all icings, except marshmallow, in refrigerator when not in use. Cover the icing container with wax paper to prevent crusting. Icings stored under 60° F. will keep fully a week.

Marshmallow Icing: Make up marshmallow icing as needed because this icing toughens on standing. Leftover marshmallow may be added to a new batch of icing as it is being mixed.

Conservation of Sugar in Icings: A knowledge of the sugar content of icings, and information on the amount of icing required per cake, proves helpful in using sugar supplies judiciously.

Use the icing which will ice more cakes for each pound of sugar used.

A GUIDE FOR CONSERVING SUGAR IN ICINGS

CREAM ICING	FUDGE OR FONDANT ICING	Marshmallow Icing
60% to 70%	60% to 65%	50% to 80%
9 to 10 ounces	14 to 16 ounces	6 to 7 ounces
150 pounds	160 pounds	190 pounds
40 pounds	60 pounds	20 pounds
	60% to 70% 9 to 10 ounces 150 pounds	60% to 70% 60% to 65%

WHITE CREAM ICING

Yield: Approx. 12 pounds.

Portion: 8 to 9 ounces per 8-inch (2 layer) cake.

		100 PC	RTIONS		
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Shortening	Pounds 2	Ounces	1 quart		
Salt		1	2 tablespoons	Mix on slow speed about 5	
Milk, liquid	1	4	2½ cups	_	
Vanilla	••••	1	2 tablespoons	desired lightness.	
Sugar, confectioners'.	8		13/4 gallons		

Apply icing at a temperature of 70°F. to 80°F.

Variations

Butter Cream Icing

Use 1 pound (1 pint) butter in place of 1 pound (1 pint) shortening.

Fruit, Nut, Jam, or Marmalade Cream Icing

Add any of the following ingredients:

For	To 10 pounds White Cream Icing Add
Nut Icing	1 pound (1 quart) chopped nuts
Raisin Icing	1 pound (1½ pints) ground raisins
Candied Fruit Icing	1 pound (1½ pints) chopped fruits
Jam or Marmalade Icing	1 pound (1 pint) jam or marmalade
Almond Icing	1 pound (1 pint) almond paste and almond flavor
Coconut Icing	1 pound (134 quarts) macaroon coconut
Fondant Icing	5 pounds ($2\frac{1}{2}$ quarts) fondant
	10 ounces ($1\frac{1}{4}$ cups) cocoa, plus 4 ounces ($\frac{1}{2}$ cup) water
Peppermint Candy Icing	8 ounces (1½ cups) crushed peppermint candy
Lady Baltimore Filling	1 to 3 pounds (3 to 9 cups) chopped cherries, nuts and raisins
Fresh Fruit Icing	4 ounces (½ cup) ground citrus or other fresh fruit

CHOCOLATE FUDGE ICING

Yield: Approx. 201/2 pounds.

Portion: Approx. 15 ounces per 8-inch (2 layer) cake.

al a series	100 PORTIONS				Doom
Ingredients	WEIG	GHTS	Amounts (approx.)	MIXING METHOD	Portions
Sugar	Pounds 3	Ounces 	1½ quarts		
Butter	1		1 pint		
Salt		11/2	3 tablespoons	Combine. Boil to 244° F.	
Water	1		1 pint		
Cream of tartar		1/4	2 teaspoons	The second of	
Sugar, confec-	10		21/4 gallons		
tioners'. Shortening	2	8	11/4 quarts	Cream together. Add above sirup quickly. Beat	
Milk, liquid		12	1½ cups	smooth.	
Milk, liquid		12	1½ cups		
Chocolate, bit-	1	8	24 squares	Stir in and beat icing to desired consistency.	
ter, melted.		2	1/4 cup		

Apply icing at a temperature of about 80° F.

CHOCOLATE MALTED MILK CREAM ICING

Yield: Approx. 10 pounds.

Portion: Approx. 10 ounces per 8-inch (2 layer) cake.

		100 PC	ORTIONS MIXING METHOD PORTIONS
Ingredients	WEIG	GHTS	AMOUNTS (approx.) MIXING METHODPORTIONS
Shortening	Pounds 1	Ounces 4	11/4 pints
Salt		3/4	1½ tablespoons Cream together until light.
Malted milk		6	1 cup
Chocolate, melted.	1	8	24 squares Add and stir in.
Milk liquid	1	8	1½ pints Add and stir in.
Sugar, confectioners'.	5		4½ quarts Stir in. Mix until smooth.

Apply icing at a temperature of 70° F. to 80° F.

MAPLE CREAM ICING

Yield: Approx. 11½ pounds.

Portion: Approx. 12 ounces per 8-inch (2 layer) cake.

International		100 PC	ORTIONS	MIXING METHOD	Portions
Ingredients	WEIG	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Sugar, light brown.	Pounds	Ounces 12	23/4 quarts	Heat to boiling tempera-	
Milk, liquid	1	12	3½ cups	ture. Cool to temperature of 70° F. to 75° F.	
Salt		3/4	1½ tablespoons		
Shortening	1	14	33/4 cups	Whip together. Add grad- ually above sirup. Con-	
Maple flavor		1/4	½ tablespoon	tinue beating about 5 minutes.	
Fondant	3	12	1½ quarts	Add and whip lightly about 10 minutes.	

Apply icing at a temperature of 70° F. to 80° F.

FONDANT

Ingredients		100 PC	ORTIONS			
	WEIG	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions	
Sugar Sirup, corn Water		Ounces 	1½ gallons	Heat to temperature of 240° F. Wash sides of kettle carefully. Pour into mixing bowl. Cool in cold water bath to 150° F. Grain at high speed on machine.		

Note: 1 pound (1 pint) sugar may be used in place of 1 pound corn sirup.

PINEAPPLE FONDANT ICING

Yield: Approx. 131/4 pounds. Portion: Approx. 15 ounces per 8-inch (2 layer) cake.

Tarananana		100 PC	ORTIONS	MIXING METHOD	Portions
Ingredients	WEI	HTS	Amounts (approx.)		PORTIONS
Fondant	Pounds 9	Ounces 8	3¾ quarts	Mix slowly at 70°F. to 80°F.	
Shortening	2	8	11/4 quarts	until smooth. Cream 2	
Salt		1/2	1 tablespoon		
Milk, liquid (variable).		8	1 cup	Add and mix until smooth. Cream at medium speed 3 minutes.	
Pineapple, crushed, drained.		12	1½ cups	Blend into icing. Cream 2 minutes at medium speed.	

Apply icing at a temperature of 70° F. to 80° F.

Note: Other fruits, drained, may be used in

place of pineapple. Canned or stewed apricots, or strawberries make a delicious icing.

MARSHMALLOW ICING

(Egg white type)

Yield: Approx. 6 pounds.

Portion: Approx. 6 ounces per 8-inch (2 layer) cake.

Ingredients		100 PC	ORTIONS	MIXING METHOD	Portions
INGREDIENTS	WEIG	HTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Sugar	Pounds 3	Ounces 4	15/8 quarts		
Sirup, corn		12	1 cup	Boil to 240° F. washing down the sides of the ket-	
Cream of tartar	••••	1/4	2 teaspoons	}	
Water		10	11/4 cups		
Egg whites		10	1½ cups	Whip to a dry peak, using medium speed. Add the above sirup slowly and beat until fluffy, about 10 minutes.	
Sugar, confectioners'.		12	11/4 pints	Stir in and beat until smooth.	

Apply icing at a temperature of about 90° F. Note.—1. 12 ounces (1½ cups) sugar may be used in place of 12 ounces corn sirup.

2. 1 ounce powdered egg white and 9 ounces $(1\frac{1}{8} \text{ cups})$ water may be used in place of 10 ounces $(1\frac{1}{4} \text{ cups})$ egg whites.

MARSHMALLOW ICING

(Gelatin type)

Yield: Approx. 73/4 pounds.

Portion: Approx. 6 ounces per 8-inch (2 layer) cake.

Ingredients	WEIGHTS AMOUNTS (approx.)		I	MIXING METHOD	Portions
Gelatin, unflavored. Water, cold	Pounds	Ounces 11/4.	5 tablespoons	Soak gelatin in cold water 10 minutes.	
Water, boiling	1	8	3/4 quart	Add gelatin mixture.	
Sugar, confectioners'.	5	10	11/4 gallons	Add gradually and beat until fluffy.	
Vanilla		2	1/4 cup	Stir in.	

Apply icing at a temperature of about 90° F.

Cake Doughnuts

Production Pointers

Dough Handling: Mix doughnut doughs according to dough temperature. Cold doughs require more mixing than warm doughs. A dough temperature of about 75° F. is normal for most cake doughnut mixes.

Allow dough mixed for machine doughnuts to stand 15 to 20 minutes before it is put through the mechanical dropper. This practice permits dough to "open up" somewhat, and helps to prevent formation of objectionable tight center cores.

Allow doughnuts, made by rolling and cutting out dough, to rest on a wire screen 15 to 60 minutes before they are dropped into frying fat. This resting period, helps produce doughnuts with desired expansion, grain and texture.

Frying: To produce quality doughnuts economically, it is necessary to keep the frying fat in the best possible condition.

Deep frying subjects fat to strenuous treatment. Every precaution should be taken to keep frying fat up to standard at all times. The better the condition of frying fat, the better will be the taste and flavor of finished doughnuts. At the same time proper care of frying fat will prolong its frying life and result in more economical frying.

How to Keep Frying Fat in Best Possible Condition

- 1. Avoid heating frying fat to high temperatures (above 400°F.).
- 2. Regulate heating of frying fat to eliminate hot spots.
- 3. Strain out, regularly, burnt food particles which accumulate during frying.
- 4. Reduce temperature of frying fat to 250° F. during periods when no food is being fried.
- 5. Fry in the smallest quantity of fat that is practical and thus insure rapid turnover of fresh fat.
- 6. Clean frying kettles thoroughly after each 24-hour frying period. Rinse thoroughly so that no particle of cleaning product is left which may contaminate the frying pan.

Portion: 2 Doughnuts.

DOUGHNUTS

(Hand. cut)

Yield: Approx. 191/2 pounds.

Tuennana		100 PC	RTIONS		Donmary
Ingredients	WEIGHTS AMOUNTS (approx.) MIXING METHOD	PORTIONS			
Flour	Pounds 9	Ounces 7	21/4 gallons)	
Baking powder	••••	7	1½ cups		
Salt	l= ····	3/4.	1½ tablespoons	Blend ingredients together	
Nutmeg	<u> </u>	1/2	2 tablespoons	thoroughly.	
Shortening		12	1½ cups		
Sugar	2	12	13/8 quarts		
Milk, liquid	4	4	2½ quarts	Mix milk, eggs and flavor-	
(variable). Eggs, whole	2	4	22 (1½ quarts)	ing together. Add and mix to a smooth	
Vanilla		11/2	3 tablespoons	dough, about 2 minutes.	

Make-up: Roll dough to a thickness of approximately ¼ inch. Cut out doughnuts with a 1½-inch to 2-inch floured cutter. Allow to rest for approximately 20 minutes.

Frying: Fry in hot deep fat at 380°F. to 390°F., about 1½ minutes.

NOTE.—1. For Machine Doughnuts, make a slightly softer dough by adding approximately 8 ounces (1 cup) more milk.

2. 9 ounces powdered eggs and 1 pound 11 ounces (3½ cups) water may be used in place of 2 pounds 4 ounces whole eggs.

Variations

Coconut Jelly Doughnuts

Whip jelly until smooth. Spread on top of doughnuts. Sprinkle surface with shredded coconut.

Frosted Doughnuts

Spread tops with Butter Cream Frosting (page 391) in any desired flavor. Chopped nuts or coconut may be sprinkled over frosting.

Frosted Doughnut Pinwheels

Spread Butter Cream Frosting (page 391) around outer rim of doughnut. Roll, as a wheel, in shredded coconut or chopped nuts.

Lemon Doughnuts

Omit nutmeg, and vanilla and add $1\frac{1}{4}$ ounces (5 tablespoons) grated lemon rind or $\frac{3}{4}$ ounce ($1\frac{1}{2}$ tablespoons) lemon extract.

Lemon Doughnut Dessert

Split doughnuts. Put a generous amount of Lemon Filling (page 419) between cut surfaces. Sprinkle with powdered sugar or spread with additional Lemon Filling and sprinkle with shredded coconut.

Orange Doughnuts

Omit nutmeg and vanilla. Add 13/4 ounces (7 tablespoons) grated orange rind or 1 ounce (2 tablespoons) orange extract.

Yeast Raised Doughnuts

See Sweet Yeast Goods Section (page 351).

DOUGHNUT ICING FORMULA

(Suitable for any cake doughnut)

Ingredients		100 PC	ORTIONS	MIXING METHOD	PORTIONS
	WEI	GHTS	Amounts (approx.)	, MIXING METHOD	Fortions
Water	Pounds	Ounces 6	³ , cup	[Combine. near to bonning]	Ш
Sirup, corn	••••	2	3 tablespoons	stemperature.	
Gelatin, un- flavored. Water		1/ ₈ 2	1 teaspoon	Soak gelatin in water. Dis- solve in above sirup.	
Sugar, confectioners'.	3		2/2 quarts	Stir sirup slowly into the sugar. Beat until smooth. Heat to temperature of 90 F. to 100 F. for use.	

Usage: Dip doughnuts in icing as they come from frying kettle.

Note.—2 ounces (11/4 cup) granulated sugar

may be used in place of 2 ounces (3 table-spoons) corn sirup.

DOUGHNUT SUGARING FORMULA

(Suitable for any cake doughnut)

		100 PC	ORTIONS	MIXING METHOD	
Ingredients	WEI	GHTS	AMOUNTS (approx.)		PORTIONS
Sugar, confectioners'. Shortening	Pounds 2	Ounces	1¾ quarts	Cream together 10 to 15	
Milk, skim, powdered. Cornstarch		2	½ cup	Add and mix several min- utes. Run mix through very fine sieve.	

Usage: Sugar the doughnuts which have been cooled to room temperature about 70°F.

Note.—Amount of shortening in doughnut

sugaring mix can be varied. By increasing shortening, a heavier type doughnut sugar is produced.

Pies

Production Pointers

Pie Crust: A good pie consists of a good filling and a good crust.

To make good pie crust, proper mixing and an adequate amount of shortening are necessary.

Causes For Tough Crust:

Too little shortening

Too much water

Shortening and flour are not properly blended before water is added

Pie dough is overmixed after water is added

Pie dough formulas on pages 399 and 400, can be used for making varied types of pie crust by varying mixing procedure.

Three Types Of Pie Crust:

- 1. Flaky type crust
- 2. Short mealy type crust
- 3. Short flaky type crust

Mixing Methods:

1. Flaky Type Crust: Mix all the shortening with all the flour to obtain an irregular mixture, so that small lumps of fat remain throughout the mixture.

Add cold water and incorporate. This dough

requires more water than other type doughs, because less flour is coated with fat, hence more water is absorbed by flour.

- 2. Short Mealy Type Crust: Mix all the shortening thoroughly with ½ the flour. Add balance of flour and mix in to break up creamed mass. Add cold water. Mix just enough to properly incorporate water.
- 3. Short Flaky Type Crust: Mix ½ the shortening with all the flour until a thorough distribution of fat is obtained.

Add balance of shortening. Mix in lightly so that small lumps remain throughout dough.

Add cold water and mix just enough to properly incorporate.

Handling The Dough: When pie dough is made up into pies, there is a certain amount of dough trimmings left. Utilizing this dough, by making up into additional pies, is not too satisfactory since additional working of the dough may give a tough finished crust.

Dough trimmings are best utilized by blending them into a new batch of pie dough in amounts up to about 25 per cent of the weight of fresh dough. The trimming should be blended with flour and shortening.

Baking: Pies bake best when there is a good solid bottom heat in the oven.

Bake fruit pies, in general, at 425° F. to 450° F.

Bake custard, pumpkin and soft pies at about 400° F.

Bake pie shells for soft cream type pies at about 425° F.

Fillings

Fruit Fillings: Vary the amount of sugar in proportion to the tartness of the fruit in making fruit pies. The formulas in this book have a sugar content adjusted for fruits of average tartness.

A good fruit pie should "run" slightly when cut. Use a minimum amount of flour, cornstarch, tapioca or other thickeners.

Soft Fillings: Eggs, cornstarch, flour or tapioca are the thickening ingredients usually used for soft type pies. Eggs are best but are more expensive than other thickeners.

Economy and quality can be procured by using both cornstarch or another thickening ingredient of this type together with eggs, in soft fillings.

Separation In Baking: Separation during baking, resulting in a finished pie with a "honeycomb" filling, is often encountered in custard pie fillings. This may be due to baking at a too high temperature (above 400° F.) or using insufficient eggs or cornstarch in the filling.

Toppings: Soft pies are usually finished with an egg-white meringue. Occasionally the meringue becomes watery and tends to break down. This gives the pie an unappetizing appearance and disagreeable eating qualities.

Γο Eliminate Difficulties With Watery Meringue

Use ample amounts of egg whites. Use at least 1 pound of egg whites for each pound of sugar in meringue formula.

Brown the meringue at 400° F. A temperature much higher or much lower than 400° F. will cause the development of a watery meringue after the pie is baked.

Check the amount of stabilizer (cornstarch, tapioca, flour, etc.) in the meringue formula. Up to 4 ounces of stabilizer can be used for each 2 pounds of egg whites.

PIE PASTRY

Yield: 17 (10-inch) 2-crust pies.

Portion: 14 ounces per 2-crust pie.

		100 PC	ORTIONS .		
Ingredients	WEIG	GHTS	Amounts (approx.)	MIXING METHOD	Portions
Flour	Pounds 7	Ounces 8	7½ quarts	Rub ingredients together to a fine crumb the size	
Shortening	4	8	21/4 quarts		
Sugar		6	3/4. cup	Dissolve sugar and salt in water. Add to flour and	
Salt		4	½ cup	shortening. Mix just enough to form a dough.	
Water, cold (variable).	3	••••	1½ quarts		

Yield: 17 (10-inch) 2-crust pies.

Portion: 14 ounces per 2-crust pies.

Lucheniewe	100 PORTIONS			Manage Manage	
Ingredients	Wei	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Flour	Pounds 7	Ounces 8	7½ quarts		
Milk, skim, powdered.		4	1 cup	Sift ingredients together.	
Baking powder	••••	2	5 tablespoons		
Shortening	2	12	13/8 quarts	Rub into flour until thoroughly mixed.	
Shortening	2	12	13/8 quarts		
Salt		4	½ cup	Dissolve salt in milk. Add. Mix lightly so as not to	
Milk, liquid (variable).	3		1½ quarts	toughen the mix. Roll to a thickness of 1/8 inch. Line pie tins.	

PIE PASTRY

(Rolled pie crust)

Yield: 17 (10-inch) 2-crust pies.

Portion: 14 ounces per 2-crust pies.

Ingredients		100 PC	PRTIONS		
	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Flour	Pounds 7	Ounces 8	7½ quarts		
Shortening	1	14	33/4 cups	Mix ingredients together thoroughly.	
Salt		4	½ cup		
Shortening	3	4	3½ pints	ing in small lumps	
Water, cold (variable).	3		$1rac{1}{2}$ quarts	throughout the mixture. Add water. Mix in lightly.	

Make-up: Roll out dough to a thickness of approximately $\frac{1}{4}$ inch. Fold $\frac{1}{3}$ of dough over $\frac{1}{2}$ the remaining dough.

Fold final $\frac{1}{3}$ of dough over on top to make third layer. Roll out to a thickness of $\frac{1}{4}$ inch.

Fold to give 3 layers again. Roll out to a

thickness of approximately ½ inch.

Cut dough into 7 to 8-ounce pieces which, when rolled out thin, will be the approximate size crust for a 10-inch pie.

Place pieces on pans in refrigerator and use as needed.

	1			1	4
Ingredients		100 PC	ORTIONS	MIXING METHOD	Portions
INGREDIENTS	WEI	GHTS	Amounts (approx.)	MIXING PILITOD	ORITONS
	Pounds	Ounves			
Sugar	7	8	3¾ quarts		
Cinnamon	****	1	½ cup		
Nutmeg		1/4	1 tablespoon	Sift ingredients together.	
Flour or corn-starch.	••••	4	1 cup		
Salt		1/1	½ tablespoon		
Apples	24		4 No. 10 cans (3½ gallons).		
Butter or shortening.	1		1 pint	Melt.	
Pie Pastry (page 399).	14	••••		Roll to a thickness of 1/8 inch.	

Make-up: Line pie tins with pie dough. Add apples. Sprinkle each pie with 1 cup sugared spice mixture.

Add 2 tablespoons butter. Brush edges with cold water. Add top crust. Perforate.

Press edges firmly together. Brush top with milk.

Baking: Bake at 425°F. to 450°F. for 45 minutes.

NOTE.—1. Vary sugar with the tartness of the fruit to give the desired flavor to the pie.

2. 31/4 gallons of sliced or quartered fresh apples may be used in place of canned apples.

Variation

Apple Turnover:

Make-up: Cut pie pastry into 6 to 6½-inch circle. Place ½ cup sliced apples in center.

Sprinkle with sugared spice mixture and melted butter or shortening.

Fold dough over. Press edges together firmly. Brush with milk. Place on bun pan.

Baking: Bake at 425°F. to 450°F. for 30 to 35 minutes.

Portion: 1/6 pie.

APPLE PIE

(Using dried apples)

Yield: 17 (10-inch) pies.

Ingredients	117		RTIONS	MIXING METHOD	Portions
	WEI	GHTS	AMOUNTS (approx.)		
Apples, dried	Pounds 10	Ounces	43% gallons.	Combine. Soak 45 to 60	
				minutes.	
Water, cool	_ 27		33/8 gallons	Heat to boiling temperature. Let simmer 20 minutes.	
Sugar	6		3/4 gallon	Stir into apple mixture. Let simmer 10 minutes, stirring	
Cinnamon		3⁄4	3% tablespoons	occasionally.	
Pie Pastry (page 399).	14	Ē	1	Roll to a thickness of ½ inch. Line pie tins.	

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Fill. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Portion: 1/6 pie.

Portion: 1/6 pie.

Baking: Bake at 425° F. to 450° F. about 45 minutes.

APPLE PIE

(Using dehydrated apple nuggets)

Yield: 17 (10-inch) pies.

		100 PC	ORTIONS		
Ingredients	WEIGHTS		Amounts (approx.)	MIXING METHOD	Portions
Apple nuggets Water, cool	Pounds 4 26	Ounces 	1¾ gallons	Combine. Soak 45 to 60 minutes. Heat to boiling temperature. Let simmer 20 minutes.	
Sugar		3/4	$2\frac{1}{2}$ quarts	simmer 10 minutes, stir-	
Pie Pastry (page 399).	14			Roll to a thickness of ½ inch. Line pie tins.	

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Fill. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges to-

gether firmly. Brush top with milk.

Baking: Bake at 425° F. to 450° F. about 45 minutes.

Yield: 2 bun pans.

Portion: 1 piece, $2\frac{1}{4} \times 2\frac{1}{2}$ inches.

		100 PC	PRTIONS	Manual Manual	Description
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Sugar	Pounds 7	Ounces 8	3¾ quarts		
Cinnamon		1	1/4 cup		
Nutmeg		1/4	1 tablespoon	Sift ingredients together.	
Flour or corn- starch.		3	3/4 cup		
Salt	••••	1/4	½ tablespoon		
Apples	24		4 No. 10 cans (31/4 gallons).		
Butter or shortening.	1		1 pint	Melt.	
Pie Pastry (page 399).	8			Roll to a thickness of 1/8 inch. Cut into strips 3 inches wide.	

Make-up: Spréad apples evenly in greased baking pans. Sprinkle with sugar-spice mixture. Pour melted shortening over top.

Lay strips of pastry across pan so that the surface is entirely covered. Brush top with milk.

Baking: Bake at 425° F. to 450° F. for 1 hour or until apples are tender.

NOTE.—Vary sugar with the tartness of the fruit to give the desired flavor to finished pie.

DUTCH APPLE PIE

Yield: 17 (10-inch) pies; or 2 bun pans.

Portion: $\frac{1}{6}$ pie or 1 piece, $2\frac{1}{2} \times 2\frac{1}{2}$ inches.

I		100 PC	ORTIONS			
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	Portions	
Eggs, whole	Pounds 1	Ounces 10	16 (1½ pints).	Beat until light		
Sugar	6	8	31/4 quarts			
Flour	3	8	3½ quarts			
Salt	••••	1/4	$\frac{1}{2}$ tablespoon	Mix ingredients together thoroughly. Add lightly beaten eggs.		
Cinnamon		1/4	1 tablespoon		•	
Nutmeg		1/8	½ tablespoon			
Butter or shortening.	1		1 pint	Melt. Add to egg mixture.		
Apples	18		3 No. 10 cans	Chop coarsely. Drain.		
Pie Pastry (page 399).	8		$(2\frac{1}{2} \text{ gallons}).$	Roll to a thickness of ½ linch.		

Make-up: Line pie tins or bun pans with pie dough. Spread with chopped apples. Cover with sugar-egg mixture.

Baking: Bake at 400° F. for 45 minutes.

Note.—1. 2 pounds $(1\frac{1}{2})$ quarts) raisins may be added to the mixture.

2. Vary sugar with the tartness of the fruit to give desired flavor to finished pie.

APRICOT PIE

Yield: 17 (10-inch) pies.

(Using dried apricots)

Portion: 1/6 pie.

				, , , , , , , , , , , , , , , , , , ,	rortion. 76 pic.
		100 PC	ORTIONS	MIXING METHOD	Poprava
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	Portions
Assissa July 1	Pounds	Ounces) G - 1: - G - 1 - 45 - 4 - 60 (
Apricots, dried	10		2½gallons	Combine. Soak 45 to 60 minutes. Heat to boiling	
Water, cool	20		2½gallons	temperature. Let simmer 20 minutes. Mix together. Stir into sim-	
Sugar	10		1½ gallons	mering apricots. Cook, stirring occasionally, until	
Cornstarch		10	1 pint	mixture thickens slightly. Cool and use.	
Pie Pastry (page 399).	14			Roll to a thickness of ½ inch. Line pie tins.	

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Fill. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Baking: Bake at 425° F. to 450° F. about 45 minutes.

BERRY OR CHERRY PIE

(Fresh or canned)

Yield: 17 (10-inch) pies.

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Taranta		100 PC	PRTIONS		Portions
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	FORTIONS
Berries or cherries.	Pounds 25	Ounces 12	4 No. 10 cans of pie cherries or berries (31/4 gallons)		
Cornstarch		4	3 ³ / ₄ cups	Mix together cornstarch, water and fruit juice	
Water	2	8	11/4 quarts	until smooth. Stir in	
Sugar	12	1	1½ gallons	sugar and salt. Cook until mixture is slightly thick-	
Salt		1/4.	½ tablespoon	ened. Stir in fruit. Cool.	
Pie Pastry (page 399).	14			Roll to a thickness of 1/8 inch. Line pie tins.	

Make-up: Use 2 pounds 4 ounces (1 quart) of filling per pie. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Baking: Bake at 425°F. to 450°F. for 45 minutes.

Note.—Vary sugar with the tartness of the fruit to give desired flavor to finished pie.

MOCK CHERRY PIE

(Using dehydrated apple nuggets and dehydrated cranberries)

Yield: 17 (10-inch) pies.

Portion: 1/6 pie.

Portion: 1/6 pie.

	100 PORTIONS				
Ingredients	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	Portions
Apple nuggets Cranberries, sliced, de- hydrated. Water, cool	Pounds 3 1	Ounces	4½ quarts	Combine, let soak 45 to 60 minutes. Heat to boiling temperature. Let simmer 20 minutes.	
Sugar Pie Pastry (page 399).	12 14		1½ gallons	Add to fruit mixture. Let simmer 10 minutes. Roll to a thickness of ½ inch. Line pie tins.	

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Fill. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges to-

gether firmly.

Baking: Bake at 425° F. to 450° F. about 45 minutes.

CRANBERRY AND ORANGE PIE

Yield: 17 (10-inch) pies.

Portion: 1/6 pie.

Incompanies		100 PC	ORTIONS		
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Cranberries	Pounds 19	Ounces 	43/4 gallons		
Orange juice	6		3/4 gallon	Chop cranberries. Add orange juice, grated rind	
Orange rind, grated.	•	11/2	3/8 cup	and sugar. Let stand 4 hours.	
Sugar	6		3/4 gallon		
Flour		12	1½ pints		
Sugar	6		3/4 gallon	Mix. Add to fruit mixture	
Salt		1/4	½ tablespoon		
Butter or shortening, melted.	••••	12	3/4 pint		
Pie Pastry (page 399).	14			Roll to a thickness of ½ inch. Line pie tins.	

Make-up: Use approximately 2 pounds 2 ounces (1 quart) of filling per pie. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Baking: Bake at 425° F. to 450° F. for 45

minutes.

Note.—1. 2 pounds ($1\frac{1}{2}$ quarts) raisins may be used in place of $1\frac{1}{2}$ quarts cranberries.

2. Frozen or canned cranberries may be used. Canned cranberries should be thoroughly drained before using.

PEACH PIE

(Using dried peaches)

Yield: 17 (10-inch) pies.

INGREDIENTS		100 PC	ORTIONS	MIXING METHOD	Portions
INGREDIENTS	WEIGHTS		Amounts (approx.)		
	Pounds	Ounces			
Peaches, dried	10		2½ gallons	Combine. Soak 45 to 60	
Water, cool	20		2½ gallons	Heat to boiling temperature. Let simmer 20 minutes.	
Sugar	10	*	1½ gallons	Mix together. Stir into simmering peaches. Cook, stir-	
Cornstarch		10	1 pint	ring occasionally, until mix- ture thickens slightly. Cool	
Pie Pastry (page 399).	14			Roll to a thickness of ½ inch. Line pie tins.	

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Portion: 1/6 pie.

Baking: Bake at 425° F. to 450° F. about 45 minutes.

PEAR PIE

(Using dried pears)

Yield: 17 (10-inch) pies.

	,				Torono, 70 Pro-
Ingredients		100 PC	ORTIONS		
	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Pears, dried	Pounds 12 16	Ounces 12	3 gallons	Combine. Soak 45 to 60 minutes. Heat to boiling temperature: Let simmer 20 minutes.	
Sugar	12	10	1½ gallons	Mix together. Stir into simmering pears. Cook, stirring occasionally, until mixture thickens slightly. Cool	
Pie Pastry (page 399).	14			Roll to a thickness of ½ inch. Line pie tins.	

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Baking: Bake at 425° F. to 450° F. about 45 minutes.

Portion: 1/6 pie.

Portion: 1/6 pie.

Portion: 1/6 pie.

	100 PORT				
Ingredients	WEIGHTS		Amounts (approx.)	MIXING METHOD	PORTIONS
Mincemeat	Pounds 22	Ounces 8	3 No. 10 cans (2½ gals.).		
Apples, chopped	12		2 No. 10 cans (15/8 gals.).	Mix ingredients together thoroughly.	
Fruit juice or water.	2	8	11/4 quarts		
Sugar	1		1 pint		
Pie Pastry (page 399).	14			Roll to a thickness of 1/8 inch. Line pie tins.	

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Baking: Bake at 425°F. to 450°F. for 45 minutes.

Note.—1. A mixture of fruit juice may be used although pineapple, apricot, apple juice or cider add zest when used alone.

2. Allow filling to set in refrigerator over night, if possible. This procedure will give a better flavored pie.

PEACH OR APRICOT PIE

Yield: 17 (10-inch) pies.

100 PORTIONS MIXING METHOD INGREDIENTSPortions WEIGHTS AMOUNTS (approx.) Pounds Ounces 25 12 4 No. 10 cans Drain juice from peaches or Peaches or (31/4 gals.). apricots. apricots. Cornstarch 12 5/8 quart Mix together cornstarch, water and fruit juice un-3/4 quart Water 1 til smooth. Add sugar and salt. Cook until mix-11/4 gallons Sugar 10 ture thickens slightly. 1/2 tablespoon Stir in fruit. Cool. Salt 1/4 Pie Pastry Roll to a thickness of 1/8 14

inch. Line pie tins.

(page 399).

Make-up: Use approximately 2 pounds 4 ounces (1 quart) filling per pie. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Baking: Bake at 425° F. to 450° F. for 45 minutes.

NOTE.—Vary sugar with the tartness of the fruit to give desired flavor to finished pie.

PINEAPPLE PIE

Yield: 17 (10-inch) pies.

Portion: 1/6 pie.

Ingredients		100 PC	ORTIONS	MIXING METHOD	Portions
	WEI	GHTS	AMOUNTS (approx.)	744440 4724402	
Pineapple, grated or crushed.	Pounds 26	Ounces 	4 No. 10 cans (3½ gallons).	Drain juice from pineapple.	
Cornstarch	1	2	7/8 quart	Mix together cornstarch,	
Water	2	4	11/8 quarts	water and fruit juice un- til smooth. Add sugar	
Sugar	8		1 gallon	and salt. Cook until mix- ture thickens slightly.	
Salt		1/4	½ tablespoon	Stir in fruit. Cool.	
Pie Pastry (page 399).	14			Roll to a thickness of ½ inch. Line pie tins.	

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Baking: Bake at 425° F. to 450° F. for 45°

minutes.

NOTE.—1. Filling may be put into baked pie shells and covered with Meringue (page 420). Brown at 400° F. for 3 to 5 minutes.

2. Vary sugar with the tartness of the fruit to give desired flavor to finished pie.

Portion: 1/6 pie.

Incorporate		100 PC	ORTIONS	Manage Manage	
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Prunes	Pounds 18	Ounces	4 No. 10 cans (3½ gals.).	Drain prunes and reserve juice. Remove pits.	
Sugar, brown	2	4	1½ quarts		
Apples	13	8	2 No. 10 cans (15% gals.).		
Allspice		1/8	½ tablespoon		
Cinnamon	C	1/4	1 tablespoon	Combine and the state	
Salt		1/4	½ tablespoon	Combine and mix with prunes.	
Butter or shortening.		8	1 cup		
Juice from canned prunes.	3		1½ pints		
Lemon juice		3	$\frac{3}{8}$ cup (2 lemons).		
Lemon rind		1/2	½ cup		
Pie Pastry (page 399).	14			Roll to a thickness of $\frac{1}{8}$ inch. Line pie tins.	

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Baking: Bake at 425° F. to 450° F. for 45

minutes.

Note.—1. Vary sugar with tartness of the fruit to give desired flavor to finished pie.

2. 18 pounds dried prunes, cooked, pitted, may be used in place of 4 No. 10 cans (31/4 gallons) prunes.

100 PORTIONS INGREDIENTS MIXING METHODPortions WEIGHTS AMOUNTS (approx.) Pounds Ounces Prunes, pitted .. 14 3 No. 10 cans Place prunes in bowl. Beat (2½ gals.). to pulp. Slice apricots. 3 No. 10 cans Blend lightly with Apricots 15 (21/2 gals.).prunes. Add sugar. Stir 6 3/4 gallon until dissolved. Sugar ----Pie shells, baked 17 (page 399).

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Spread smoothly and cover with Meringue (page 420). Brown at

400°F. from 3 to 5 minutes.

Note.—Vary sugar with the tartness of the fruit to give desired flavor to finished pie.

Portion: 1/6 pie.

Portion: 1/6 pie.

PRUNE PIE

(Using dried prunes)

Yield: 17 (10-inch) pies.

Ingredients		100 PC	ORTIONS	MIXING METHOD PORTIONS
INGREDIENTS	WEIGHTS		AMOUNTS (approx.)	MITAING WEIHOD
Prunes, dried Water, cool	Pounds 10 20	Ounces	$2\frac{1}{2}$ gallons	Combine. Soak 45 to 60 minutes. Heat to boiling temperature. Let simmer 20 minutes.
SugarCornstarch	10	10	1½ gallons	Mix together. Stir into sim- mering prunes. Cook, stir- ring occasionally, until mixture thickens slightly. Cool and use.
Pie Pastry (page 399).	14			Roll to a thickness of ½ inch. Line pie tins.

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Fill. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Baking: Bake at 425° F. to 450° F. about 45 minutes.

(Canned)

Yield: 17 (10-inch) pies.

Portion: 1/6 pie.

	100 PORTIONS			Name Name	
Ingredients	WEIGHTS		Amounts (approx.)	MIXING METHOD	Portions
Rhubarb	Pounds 19	Ounces 8	$3 \text{ No. } 10 \text{ cans}$ $(2\frac{1}{2} \text{ gallons}).$	Drain juice from canned rhubarb for at least ½ hour. Reserve juice.	
Rhubarb juice and water.	7	8	33/4 quarts	•	
Sugar	7		3½ quarts	Mix remaining ingredients.	
Cornstarch		9	13/4 cups	Add. Cook about 10 min- utes, stirring constantly.	
Salt		1/4	½ tablespoon	Remove from heat and stir in rhubarb. Cool.	
Butter or shortening.	1		1 pint		
Pie Pastry (page 399).	14			Roll to a thickness of ½ inch.	

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Baking: Bake at 425° F. to 450° F. for 45 minutes.

NOTE.—Vary sugar with tartness of fruit to give desired flavor to finished pie.

Yield: 17 (10-inch) pies.

	100 PORTIONS			Name N	
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Raisins, seedless Water	Pounds 8	Ounces 12	13/4 gallons	Wash raisins. Cook in water until tender, about 15 minutes. Drain. Reserve juice.	
Raisin juice and water.				Add water to raisin juice to make 10 pounds (11/4 gallons) of liquid. Heat to boiling temperature.	
Sugar	6		3/4 gallon		
Cornstarch	••••	9	13/4 cups		
Water (to dissolve cornstarch).	I	14	1¾ cups	Mix together until smooth. Heat to boiling tempera-	
Lemon juice	-11	4	½ cup (2 lem-	ture. Cook about 10 min- utes, stirring constantly.	
Orange rind, grated.		3/4	ons). 3 tablespoons	Remove from heat.	
Salt		1/4	½ tablespoon		
Butter or shortening.	1		1 pint		
Apples, chopped	8		2 gallons	Stir in raisins and chopped apples. Cool.	
Pie Pastry (page 399).	14			Roll to a thickness of ½ inch. Line pie tins.	

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Brush edge of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

 $Baking\colon$ Bake at 425° F. to 450° F. for 45 minutes.

Note.—Vary sugar with the tartness of fruit to give desired flavor to finished pie.

Portion: 1/6 pie.

RAISIN AND APPLE PIE

(Using dried apples and raisins)

Yield: 17 (10-inch) pies.

		100 PO	RTIONS		T-
INGREDIENTS	WEI	WEIGHTS AMOUNTS (approx.)		MIXING METHOD	Portions
Apples, dried	Pounds 6	Ounces 12	3 gallons	Combine. Soak 45 to 60 minutes.	
Raisins, dried	3	4	11/4 quarts	Heat to boiling temperature. Let simmer 20 minutes.	
Water, cool	27		33/8 gallons		
Sugar	6		3/4 gallon	Stir into apple mixture. Let simmer 10 minutes, stirring	
Cinnamon		3/4	3% tablespoons	occasionally.	
Pie Pastry (page 399).	14			Roll to a thickness of ½ inch. Line pie tins.	

Make-up: Use approximately 2 pounds (1 quart) filling per pie. Fill. Brush edges of bottom crust with cold water.

Add top crust. Perforate. Press edges together firmly. Brush top with milk.

Portion: 1/6 pie.

Baking: Bake at 425° F. to 450° F. about 45 minutes.

Ingredients		100 PC	ORTIONS		7
	WEIG	GHTS	AMOUNTS (approx.)	MIXING METHOD	PORTIONS
Milk, liquid	Pounds 28	Ounces	3½ gallons		
Sugar	7		3½ quarts	Combine ingredients. Heat to boiling temperature.	
Salt	••••	11/2	3 tablespoons		
Cornstarch	2	10	½ gallon	Mix together thoroughly.	
Milk, liquid	1	12	13/4 pints	Stir slowly into boiling mixture. Cook 1 to 2 min-	
Eggs, whole	6		60 (¾ gallon)	utes.	
Butter	1		1 pint	Remove filling from heat.	
Vanilla		2	1/4 cup	Stir in butter and flavor.	The Second Life

Make-up: Pour about 21/4 pounds (1 quart) filling into baked pie shells. Cool and top with Meringue (page 420). Brown in 400° F. oven 2 to 3 minutes.

Note.— $1\frac{1}{2}$ pounds powdered eggs and $4\frac{1}{2}$ pounds ($2\frac{1}{4}$ quarts) water may be used in place of 6 pounds eggs.

Variations

Banana Cream Pie

Cover bottom of baked pie shell with sliced ripe bananas (about 12 ounces, 2 or 3 bananas, per pie). Add cooled filling.

Top with Meringue (page 420). Brown at 400° F. 2 to 3 minutes.

NOTE.—Slice bananas just before filling pie shells to prevent discoloration.

Black Bottom Cream Pie

Pour a layer of cool Chocolate Cream Filling (page 416) into each baked pie shell. Cover with an equal amount of Cream Filling.

Top with Meringue (page 420). Brown at 400° F. 2 to 3 minutes.

Finely shaved chocolate may be used as topping.

Portion: 1/6 pie.

Coconut Cream Pie

Stir in 3 pounds ($4\frac{1}{2}$ quarts) shredded coconut. Pour filling into baked pie shell.

Top with Meringue (page 420). Sprinkle with coconut. Brown at 400° F. 2 to 3 minutes.

Peach Cream Pie

Place sliced peaches on bottom of baked pie shell. $1\frac{1}{2}$ No. 10 cans $(4\frac{3}{4}$ quarts) should be sufficient for 17 (10-inch) pies.

·Cover with Cream Filling. Top with Meringue (page 420). Brown at 400° F. 2 to 3 minutes.

Strawberry Cream Pie

Cover bottom of baked pie shell with strawberries. Fresh, frozen or canned strawberries may be used. Cover with Cream Filling.

Top with Meringue (page 420). Brown at 400° F. 2 to 3 minutes.

	100 PORTIONS				D
Ingredients	WEIGHTS		Amounts (approx.)	MIXING METHOD	PORTIONS
Milk, liquid	Pounds 28	Ounces	3½ gallons		
Sugar, brown	7		45% quarts	Mix together. Heat to boiling temperature.	
Salt		11/2	3 tablespoons		
Cornstarch	2	10	½ gallon	Mix together until smooth.	
Milk, liquid	1	12	13/4 pints	Add slowly to boiling mixture. Cook 1 to 2 min-	
Eggs, whole	6		60 (3/4 gallon)	utes.	
Butter	1		1 pint	Remove filling from heat.	
Vanilla		2	1/4 cup	Add butter and flavor.	

Make-up: Pour about 21/4 pounds (1 quart) of filling into baked pie shells. Cool. Top with Meringue (page 420). Brown in 400° F. oven 2 to 3 minutes.

Note.—1½ pounds powdered eggs and 4½ pounds (2¼ quarts) water may be used in place of 6 pounds eggs.

Variation

Banana Butterscotch Pie

Cover bottom of baked pie shells with sliced ripe bananas (about 12 ounces, 2 or 3 bananas. per pie). Add cooled filling. Top with meringue. Brown in 400° F. oven for 2 to 3 minutes.

Portion: 1/6 pie.

Portion: 1/6 pie.

Yield: 17 (10-inch) pies.

CHOCOLATE CREAM PIE

Tield: 17 (10-men) pies.						
Ingredients	100 PORTIONS			MIXING METHOD	Portions	
	WEI	GHTS	AMOUNTS (approx.)	MIXING DIETROD	I OKTIONS	
Milk, liquid	Pounds 15	Ounces 12	2 gallons	Combine. Heat to boiling		
Chocolate	2	4	36 squares	temperature.		
Sugar	7	8	23/4 quarts			
Salt		11/2	3 tablespoons	Mix to a smooth paste. Stir		
Flour	2	8	2½ quarts	into above mix. Cook until thick, stirring con-		
Milk, liquid	6	12	33/8 quarts	stantly.		
Eggs, whole	4		½ gallon			
Butter	1		1 pint	Stir in and cool filling.		
Vanilla		1	2 tablespoons			

Make-up: Pour about 21/4 pounds (1 quart) filling into baked pie shells. Cool. Top with Meringue (page 420). Brown in 400° F. oven 2 to 3 minutes.

Note.—1 pound powdered eggs and 3 pounds (1½ quarts) water may be used in place of 4 pounds eggs.

Portion: 1/6 pie.

PINEAPPLE CHIFFON PIE

Yield: 17 (10-inch) pies.

100 PORTIONSPortions MIXING METHOD INGREDIENTS WEIGHTS AMOUNTS (approx.) Pounds Ounces 6 3/4. gallon Pineapple juice. 2 Sugar 1 quart Heat pineapple juice to boiling temperature. Mix Salt 11/2 3 tablespoons ... dry ingredients. Stir into juice. Cook until slightly Cornstarch 1 1½ pints thickened. Stir in pine-2 No. 10 cans Pineapple, can-8 apple pulp. ned, crushed $(6\frac{1}{2} \text{ quarts}).$ or sliced, drained. 36 (1 quart)) Beat together to a stiff me-Egg whites ringue. Fold into the Sugar pineapple mixture. 3/4 quart ½ cup (2 lemons) Stir in. Lemon juice

Make-up: Pour 1 to 1½ pounds (1 quart) filling into baked pie shell. Chill and serve plain or top with whipped cream.

Note.— $3\frac{1}{4}$ ounces powdered egg whites and 1 pound $12\frac{3}{4}$ ounces ($1\frac{3}{4}$ pints) water may be used in place of 2 pounds egg whites.

Portion: 1/6 pie.

	100 PORTIONS				70 P20.
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Sugar	Pounds 6	Ounces	3/4 gallon		
Cornstarch		11/2	1/4. cup	C - C - C - C - C - C - C - C - C - C -	
Salt		1	2 tablespoons	until smooth.	
Eggs, whole	7		70 (3½ quarts)	Mix in thoroughly.	
Milk, liquid	24		3 gallons		
Butter, melted	••••	6	3/4 cup	Stir into the total mixture.	
Vanilla		2	½, cup	Blend thoroughly.	
Nutmeg		1/4	1 tablespoon		

Make-up: Pour about 21/4 pounds (1 quart) of filling into unbaked pie shell.

Baking: Bake at 400° F. about 45 minutes. Note:—1 pound 12 ounces powdered eggs and 5 pounds 4 ounces (25/3 quarts) water may be used in place of 7 pounds eggs.

Variations

Coconut Custard Pie

Place 3 pounds 4 ounces (11/4 gallons)

shredded coconut into unbaked shells, using 3 ounces (11/4 cups) to each shell.

Fill with custard mixture. Bake at 400° F. 45 minutes.

Caramel Custard Pie

Replace sugar with 6 pounds (1 gallon) brown sugar.

PECAN PIE

Yield: 17 (10-inch) pies.

Portion: 1/6 pie.

					/0 P-5
		100 PC	ORTIONS	Manual Vancan	
Ingredients	WEI	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Eggs, whole	Pounds 9	Ounces	90 ($4\frac{1}{2}$ quarts)		
Sugar	13	8	6¾ quarts		
Butter		12	1½ cups	Beat eggs slightly. Stir in	
Salt		11/2	3 tablespoons	all ingredients to make a smooth filling.	
Sirup, corn	11	4	1 gallon	Smooth ming.	
Vanilla	••••	3	6 tablespoons		
Pecans	3	12	33/4 quarts		

Make-up: Pour about 21/4 pounds (1 quart) filling into unbaked pie shells.

Baking: Bake at 400° F. for about 45 minutes.

Note.—2 pounds 4 ounces powdered eggs and 6 pounds 12 ounces (35/8 quarts) water may be used in place of 9 pounds whole eggs.

LEMON MERINGUE PIE

Yield: 17 (10-inch) pies.

Portion: 1/6 pie.

		100 PC	ORTIONS		
Ingredients	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	Portions
Cornstarch	Pounds 2	Ounces	1½ quarts		
Water	15		2 gallons	Mix cornstarch with	
Lemon juice	3	12	1% quarts (30 lemons)	enough water to make smooth paste. Add rest	
Lemon rind, grated.		6	1½ cups	about 20 minutes. Re-	,
Salt		2	½ cup	move from heat.	
Sugar			$1\frac{1}{2}$ gallons		
Egg yolks	1	14	45 (1 quart)	Beat yolks. Slowly add to filling, stirring constantly. Cool.	
Butter	1	8	$1\frac{1}{2}$ pints	Stir in.	***************************************

Make-up: Pour about 2½ pounds (1 quart) filling into baked pie shells. Cool. Top with Meringue (page 420). Brown in 400° F. oven for 2 to 3 minutes.

Note.—1. Equal parts of powdered eggs or egg yolk and water may be used in place of egg yolks.

2. 5 ounces lemon juice powder, synthetic, reconstituted with 3 pounds 12 ounces ($1\frac{7}{8}$ quarts) water may be used in place of $1\frac{7}{8}$ quarts fresh lemon juice.

Variation

Orange Meringue Pie

Use 1½ pounds (1½ pints) lemon juice, 2¼, pounds (1⅓ quarts) orange juice, 2 ounces ground lemon rind and 4 ounces ground orange rind in place of lemon juice and lemon rind specified in formula for Lemon Meringue Pie.

Portion: 1/6 pie.

	100 PORTIONS				
Ingredients	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	Portions
Pumpkin	Pounds 12	Ounces	2 No. 10 cans (6½ quarts). 3/4 gallon		
Milk, liquid	12		$1\frac{1}{2}$ gallons	Combine pumpkin with dry	
Flour		6 3/4	1½ cups	ingredients. Stir in eggs and milk. Blend until smooth.	
Nutmeg	••••	3/4	2½ tablespoons		
Ginger		1/2	2½ tablespoons		
Salt		1/2	1 tablespoon		
Eggs, whole	2	6	$24 \ (2\frac{1}{2} \ \text{pints})$		

Make-up: Pour about 21/4 pounds (1 quart) filling into unbaked pie shell.

Baking: Bake at 400° F. for about 45 minutes.

Note.— $9\frac{1}{2}$ ounces powdered eggs and 1 pound $12\frac{1}{2}$ ounces ($3\frac{1}{2}$ cups) water may be used in place of 2 pounds 6 ounces eggs.

MERINGUE FOR PIES

Yield: 17 (10-inch) pies.

Portion: 6 ounces per pie.

Ingredients	100 PORTIONS			Name Name In Laborator	Donnes
	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Egg whites	Pounds 3	Ounces 	54 (1½ quarts)	Whip to a dry peak.	
Salt		3/4	1½ tablespoons		
Sugar	3		1½ quarts	Add sugar slowly and con- tinue whipping until	
Vanilla	••••	1	2 tablespoons		

Note:—5 ounces powdered egg whites and 3 pounds ($1\frac{1}{2}$ quarts) water may be used in place of 3 pounds egg whites.

Cookies

Production Pointers

Mixing

The character of the finished cookie depends upon proper mixing of the ingredients.

Cookie doughs should be put together by simply adding all ingredients to mixing bowl and mixing until properly blended. This can be accomplished under most conditions in 2 or 3 minutes, using medium speed on mixing machine.

Over-Mixing

Over-mixing produces a tight dough which will not "spread" properly during baking. The cookies tend to become tough, have tight grain and close texture.

Under-mixing produces a coarse dough which may cause cookies to spread excessively during baking. This may result in producing cookies with distorted shapes, too large in diameter, no volume, coarse grain and harsh texture.

Control of Spread

The spread, or lateral expansion of the cookie on the pan, should be carefully controlled in order to produce a finished cookie of excellent shape and texture.

Vary The Amount Of Sugar: The amount of sugar in the dough has an effect on spread. Increased sugar causes greater spread in cookies during baking. By varying the sugar it is possible to adjust the spread.

Vary The Amount Of Moisture: Spread is also influenced by the amount of moisture in the cookie dough. Slack doughs spread more during baking than do stiff doughs. Variations in moisture, therefore, should be used to control the spread of finished cookies.

Soda: Soda also affects spread of the cookie during baking. More soda produces a greater spread. Exact specifications for soda given in the formulas should be followed.

Baking

Proper baking at the correct temperatures for the correct length of time is most important in making good cookies.

If attention is not given to proper baking, a cookie poor in flavor, eating qualities and appearance may result even though a good formula has been used, quality ingredients employed and careful handling of dough followed. Use information in the following paragraphs as a guide in baking cookies.

Bake cookies on pans which are

- 1. Greased and floured for cookie doughs high in moisture
- 2. Greased for average rich doughs
- 3. Ungreased for doughs rich in shortening

Give careful attention to condition of pans before the cookies are dropped on them. This may eliminate sticking.

Cookies may stick when pans

Are not clean

Are dry

Are not conditioned properly. New pans should be lightly greased and baked in a hot oven (450° F.) about 4 hours before using.

Are not thoroughly greased

Are uneven on bottom. Heat from oven will not reach cookies evenly on battered, bent or scratched pans.

Temperatures

Most cookies are baked at temperatures between 375° F. and 400° F.

Cookies should be baked at constant heat. Flash heat should be avoided. Double panning is often essential in ovens where bottom heat is excessive and cannot be easily controlled.

It is a good practice always to under-bake cookies slightly since there is enough heat in cookie pans to complete baking process after removing from oven. Over-baking dries out cookies and impairs the normal good flavor and texture.

Yield: Approx. 17 pounds.

Portion: 2 cookies.

	100 PORTIONS				Entre Help
Ingredients	WEIG	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Sugar	Pounds 5	Ounces	2½ quarts		
Shortening	2		1 quart		
Butter	•	8	1 cup		
Cocoa	1		4½ cups		
Sirup, corn	1	8	2½ cups	Scale all the ingredients ex-	
Salt		2	½ cup	cept nuts in the mixing bowl. Mix at medium	
Flour	3	••••	3/4 gallon	speed to a smooth dough.	
Nuts	2		½ gallon		
Eggs, whole	1	8	15 (1½ pints).		
Vanilla	••••	1/4	½ tablespoon		
Water		8	1 cup		

Make-up: Spread about 8 pounds of batter in a greased bun pan. Sprinkle with chopped nuts.

Baking: Bake at 375° F. to 400° F. for 15 to 20 minutes.

Finishing: Cool. Cut into bars.

Note:—6 ounces powdered eggs and 18 ounces (2½ cups) water may be used in place of 1 pound 8 ounces eggs.

BUTTER COOKIES

Yield: Approx. 9½ pounds.

Portion: 2 cookies.

Ingredients	100 PORTIONS				
	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	PORTIONS
Flour	Pounds 3	Ounces 8	3½ quarts		
Salt		3/4	1½ tablespoons	Scale the ingredients into the mixing bowl. Mix at medium speed to a smooth dough.	
Shortening	2	4	4½ cups		
Sugar	2	••••	1 quart		
Eggs	1	12	18 (13/4 pints)		
Vanilla	••••	3/4.	1½ tablespoons		

Make-up: Drop on greased baking sheet.

Baking: Bake at 375° F. for 8 to 10 minutes.

Remove cookies while warm from pan.

Note.—1. To make fancy shapes, use star pastry tube for rosettes, star shapes and other varieties.

2. 7 ounces powdered eggs and 1 pound 5 ounces $(2\frac{1}{2} \text{ cups})$ water may be used in place of 1 pound 12 ounces eggs.

Variations

Chocolate Butter Cookies

Sift 10 ounces $(2\frac{1}{2} \text{ cups})$ cocoa with flour and salt.

Coconut Butter Cookies

Add 1 pound 8 ounces ($2\frac{1}{2}$ quarts) shredded coconut with flour. Flavor with lemon or

almond extract. Shape as desired. Bake.

Coconut Chocolate Cookies

Add 1 pound 8 ounces (2½ quarts) shredded coconut to chocolate butter cookie mixture.

Ice Box Cookies

Roll dough into cylindrical shape, 1½ inches in diameter. Wrap in waxed paper and chill. Cut in thin slices. Bake.

Shortbread

Decrease eggs to 4 (6½ ounces). Roll dough into rectangular sheet ½ inch thick. Cut into 2-inch squares. Bake on greased baking sheets in moderate oven (350° F.) 10 to 12 minutes.

Portion: 2 cookies.

FRUIT BARS

Yield: Approx. 141/2 pounds.

	100 PORTIONS				
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	PORTIONS
Flour	Pounds 5	Ounces	11/4 gallons		
Molasses	2	8	7/8 quart		
Sugar	2	8	11/4 quarts		
Salt		11/4	2½ tablespoons	Scale the ingredients into the mixing bowl. Mix at	
Cinnamon		11/4	5 tablespoons		
Ginger		5/8	2 tablespoons	medium speed to a smooth dough.	
Soda		11/4	$2\frac{1}{2}$ tablespoons.		
Eggs, whole	1	8	15 (1½ pints)		
Raisins	3	12	2¾ quarts		
Shortening	1	12	3½ cups		

Make-up: Mold 12-ounce pieces of dough into strips approximately 22 inches long, 2 inches wide and 1/4 inch thick.

Place 3 strips on 18 x 25-inch bun pan. Wash with Egg Wash (page 357).

Baking: Bake at 375° F. to 400° F. for 15 to 20 minutes.

Finishing: Cool. Cut into bars about 2 inches in width.

Note.—1. 2 pounds brown sugar and 8 ounces water may be used in place of $2\frac{1}{2}$ pounds molasses.

2. 6 ounces powdered eggs and 18 ounces $(2\frac{1}{4} \text{ cups})$ water may be used in place of 1 pound 8 ounces eggs.

Yield: Approx. 15 pounds.

100 PORTIONS					
INGREDIENTS		100 P(INTIONS	MIXING METHOD	Portions
	WEI	GHTS	Amounts (approx.)		
Flour	Pounds 4	Ounces	1 gallon		
Baking powder		11/2	1/4 cup		
Soda	••••	1	2 tablespoons		
Salt		1	2 tablespoons		
Ginger		1/2	2 tablespoons	Scale the ingredients into	
Cinnamon	••••	1	1/4 cup		
Cloves		1/4	1 tablespoon	the mixing bowl. Mix at medium speed to a	
Cake crumbs	1	8	3/4 quart	smooth dough.	
Shortening	1	8	1½ pints		
Eggs, whole	1		10 (1 pint)		
Sugar, brown	1	8	4½ cups		
Water		12	1½ cups		
Sugar	2		1 quart		

Make-up: Drop dough by teaspoonful on greased baking sheet.

Baking: Bake at 375° F. for 8 to 10 minutes. Remove cookies while warm from pan.

Note:—4 ounces powdered eggs and 12 ounces ($1\frac{1}{2}$ cups) water may be used in place of 1 pound eggs.

Portion: 2 cookies.

Yield: Approx. 151/2 pounds.

Ingredients	100 PORTIONS			MIXING METHOD	Portions	
INGREDIENTS	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	ORTIONS	
Flour	Pounds 4	Ounces 8	41/4 quarts			
Baking powder		2	5 tablespoons			
Salt		1	2 tablespoons	Scale the ingredients into the mixing bowl. Mix at		
Soda		1/4	½ tablespoon			
Cocoa		12	⅓ quart		,	
Shortening	2	4	4½ cups	>		
Sugar	3		1½ quarts	Simoth dough.		
Eggs, whole	•	12	8 (3/4 pint)			
Vanilla		1	2 tablespoons			
Milk, liquid (variable).	3	•	1½ quarts		· · · · · · · · · · · · · · · · · · ·	

Make-up: Drop on greased baking sheets.

Baking: Bake at 375° F. for 10 to 12 minutes. Remove while warm from pans.

NOTE.—1. Reduce liquid milk to 2 pounds (1 quart) for rolled and cut cookies. Mix as for

cookie dough. Roll dough to a thickness of 1/4 inch. Cut out cookies. Pan and bake.

Portion: 2 cookies.

2. 3 ounces powdered eggs and 9 ounces ($1\frac{1}{8}$ cups) water may be used in place of the 12 ounces eggs.

Yield: Approx. 131/2 pounds.

T	100 PORTIONS				Departure	
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions	
Sugar	Pounds 3	Ounces	1½ quarts			
Shortening	1	****	1 pint			
Ginger		11/2	7 tablespoons			
Cinnamon		1/2	2 tablespoons			
Salt		11/4	$2\frac{1}{2}$ tablespoons	Scale the ingredients into the mixing bowl. Mix		
Eggs, whole		12	8 (3/4 pint)			
Soda		11/2	3 tablespoons			
Molasses	. 2	12	1 quart			
Water		10	11/4 cups			
(variable).	. 5		11/4 gallons			

Make-up: Roll to a thickness of ¼ inch. Cut with 2-inch floured cookie cutter. Place on well greased baking sheets.

Baking: Bake at 375° F. for 10 to 12 minutes. Remove cookies while warm from pan.

Note.—1. 3 ounces powdered eggs and 9

ounces ($1\frac{1}{8}$ cups) water may be used in place of 12 ounces eggs.

Portion: 2 cookies.

2. 2 pounds 4 ounces (1½ quarts) brown sugar and 8 ounces (1 cup) water may be used in place of 2 pounds 12 oùnces (1 quart) molasses.

HERMITS

(Raisin and Nut Drop Cookies)

Yield: Approx. 153/4 pounds.

Portion: 2 cookies.

and rate !	100 PORTIONS			Windston Landston (opposite		my	етизистри
INGREDIENTS	WEI	GHTS	Amounts (approx.)	MIXING M	ETHOD		PORTIONS
Flour	Pounds 3	Ounces	3/4 gallon	7,000,000,000,000	11		
Baking powder		21/2	6 tablespoons	nooqeelda) I			1000
Salt		1	2 tablespoons	2 tablesprons			
Cinnamon	1	1	1/4, cup	nongasidad I			
Shortening	2		1 quart	Scale the ingrethe mixing		1	
Sugar	2	Januar .	1 quart	at medium smooth dough	speed	2	
Eggs, whole	2	The last of	20 (1 quart)	Zis queria		2	
Milk, liquid (variable).	2		1 quart	1. 0000 342		8	
Raisins, seedless.	2	8	13/4 quarts	Till queens		8	10000
Nuts, coarsely chopped.	2		½ gallon	Jan. non t	24,	====	

Make-up: Drop dough on greased baking sheets.

Baking: Bake at 375° F. for 10 to 12 minutes. Remove cookies while warm from pan.

Note.—8 ounces powdered eggs and 1 pound 8 ounces ($1\frac{1}{2}$ pints) water may be used in place of 2 pound eggs.

Yield: Approx. 141/4 pounds.

	1				
To a second		100 PC	RTIONS	Manage Manage	
Ingredients	WEIG	GHTS	Amounts (approx.)	MIXING METHOD	PORTIONS
Flour	Pounds 3	Ounces	3/4 gallon		
Baking powder		11/4	3 tablespoons		
Soda		1/2	1 tablespoon		
Salt		1	2 tablespoons		
Cinnamon		1/4	1 tablespoon		
Nutmeg		1/4,	1 tablespoon		
Cloves		1/8	11/4 teaspoons		
Oatmeal	2	4	21/8 quarts	at medium speed to a smooth dough.	
Shortening	2	4	4½ cups		
Sugar	2	12	13/8 quarts		
Molasses or		12	1 cup		
sirup, corn. Eggs, whole	. 1		10 (1 pint)		
Milk, liquid	. 2		1 quart		

Make-up: Drop dough on greased baking sheets.

Baking: Bake at 375° F. for 10 to 12 minutes. Remove cookies while warm from pan.

Note.—1. 10 ounces (13/4 cups) brown sugar

and 2 ounces (1/4 cup) water may be used in place of 12 ounces molasses or sirup.

Portion: 2 cookies.

2. 4 ounces powdered eggs and 12 ounces $(1\frac{1}{2} \text{ cups})$ water may be used in place of 1 pound eggs.

Yield: Approx. 181/4 pounds.

Portion: 2 cookies.

	100 PORT		PRTIONS	Y Y Y	Passassassassassassassassassassassassass
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Flour	Pounds 6	Ounces	1½ gallons		
Baking powder		1/2	1 tablespoon		
Soda	42-0	3/4	1½ tablespoons		
Salt	••••	3/4	1½ tablespoons	Scale the ingredients into	
Ginger		1/2	2½ tablespoons		
Cinnamon		1/2	2 tablespoons	the mixing bowl. Mix at medium speed to a	
Shortening	2	4	4½ cups	smooth dough.	
Sugar	2	. 4	4½ cups		
Eggs, whole	1	8	15 (1½ pints)		••••
Molasses	3	4	21/4 pints		
Milk, liquid	2	12	23/4 pints		

Make-up: Drop dough on greased baking sheets.

Baking: Bake at 375° F. for 10 to 12 minutes. Remove cookies while warm from pan.

Note.-1. 6 ounces powdered eggs and 1

pound 2 ounces $(2\frac{1}{4}$ cups) water may be used in place of 1 pound 8 ounces eggs.

2. $2\frac{1}{2}$ pounds ($6\frac{2}{3}$ cups) brown sugar and 12 ounces ($1\frac{1}{2}$ cups) water may be used in place of 3 pounds 4 ounces ($1\frac{1}{4}$ quarts) molasses.

Yield: Approx. 18 pounds.

Portion: 2 cookies.

Tarananana	100 PORTIONS			an é mo	
Ingredients	WEI	GHTS	AMOUNTS (approx.)	MIXING METHOD	Portions
Flour	Pounds 6	Ounces	1½ gallons		
Baking powder	••••	2	5 tablespoons	to the same of the	
Salt		1	2 tablespoons		•••••••••••••••••••••••••••••••••••••••
Nutmeg		2	7 tablespoons	Scale the ingredients into	
Shortening	3		1½ quarts	the mixing bowl. Mix at medium speed to a	
Sugar	4	8	2½ quarts	smooth dough.	
Eggs, whole	1	4	12 (1½ pints).		
Vanilla		1	2 tablespoons		
Milk, liquid	2	12	13/8 quarts		

Make-up: Drop dough on greased baking sheets.

Baking: Bake at 375° F. for 8 to 10 minutes. Remove cookies while warm from pan.

Note.—5 ounces powdered eggs and 15 ounces (17/8 cups) water may be used in place of 1 pound 4 ounces eggs.

RICH SUGAR COOKIES

Yield: Approx. 143/4 pounds.

Portion: 2 cookies.

7-11		100 PC	ORTIONS	Y	
INGREDIENTS	GREDIENTS WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	Portions
Sugar	Pounds 4	Ounces	½ gallon		
Shortening	3		1½ quarts		
Salt	••••	11/2	3 tablespoons		
Mace	••••	1/4	1 tablespoon	Scale the ingredients into the mixing bowl. Mix at	•••••••
Flour	5	8	5¼ quarts	medium speed to a smooth dough.	
Baking powder.		3	½ cup		
Eggs, whole	1	••••	10 (1 pint)		
Milk, liquid	1	****	1 pint		

Make-up: Roll dough out to thickness of approximately 1/4 inch. Cut out cookies. Place on greased baking sheets.

Baking: Bake at 375° F. to 400° F. for about 10 minutes.

NOTE.—1. This cookie dough is excellent for making filled cookies. Place about ½ ounce jam, raisin filling, or other fruit filling in center of cookie after it has been cut out. Fold over dough. Crimp edges. Place on greased baking sheet. Bake at 375° F. for 10 minutes.

2. 4 ounces powdered eggs and 12 ounces $(1\frac{1}{2} \text{ cups})$ water may be used in place of 1 pound eggs.

CRISP SUGAR COOKIES

Yield: Approx. 14 pounds. Portion: 2 cookies.						
		100 PC	ORTIONS		Parameter	
Ingredients	WEIGHTS		AMOUNTS (approx.)	MIXING METHOD	PORTIONS	
Flour	Pounds 6	Ounces	1½ gallons			
Baking powder	••••	2	5 tablespoons			
Salt		11/4	$21/_2$ tablespoons			
Nutmeg		1/4	1 tablespoon	Scale the ingredients into		
Shortening	1	8	1½ pints	the mixing bowl. Mix at medium speed to a		
Sugar	3	8	13/4 quarts	smooth dough.		
Eggs, whole		12	8 (3/4 pint)			
Vanilla		11/2	3 tablespoons		1 = = 31	
Milk, liquid	2		1 quart			

Make-up: Roll 1/4 inch thick on slightly floured board. Cut with floured cookie cutter.

Place on greased baking sheets. Brush with egg white. Sprinkle with sugar.

Baking: Bake at 375° F. for 8 to 10 minutes. Remove cookies while warm from pan.

NOTE.—3 ounces powdered eggs and 9 ounces $(1\frac{1}{8} \text{ cups})$ water may be used in place of 12 ounces eggs.

Variation

Filled Cookies

Make-up: Roll dough 1/4 inch thick. Cut with floured 4-inch cookie cutter or cut into 31/2 to 4-inch squares.

Place 1 generous teaspoon jam or marmalade on cookies on one side of center.

Moisten edge. Fold over to make half-circles or triangles. Press edges together. Place on greased baking sheets.

Baking: Bake at 375° F. 10 to 12 minutes. Remove cookies while warm from pan.

Trouble Shooting

In the best regulated mess kitchens and galleys there are times when the finished product may fall short of the standard. Some of the common difficulties, encountered in the preparation of various types of food, are listed together with the possible causes and suggested remedies. The difficulty can be overcome by trying each of the suggested remedies until the cause is discovered.

CAKES

	CA	KES	
Possible Cause	Remedy	Possible Cause	Remedy
Too much baking powder Excessive sugar. Excessive liquid. Weak flour. Insufficient eggs. Peak Dur Too hot an oven. Stiff batter. Tight batter.	Reduce sugar Reduce liquid Use stronger flour Increase eggs ing Baking Reduce heat Increase liquid	Over-mixingLow baking temperatureInsufficient baking powderToo little shortening (pound cake)	Use less pan grease Reduce baking time Volume Decrease mixing Increase baking temperature Increase baking powder Increase shortening Texture Increase mixing
Over-mixingExcessive liquid	Decrease mixing		shortening, milk, and eggs) Warm ingredients to room temperature (75° F.)
Cream Join			ingo Progle Down
Too much liquid Fudge and Fondant T	1	Insufficient egg white Insufficient gelatin Insufficient sugar Insufficient beating	Use more gelatin Increase sugar content
	PI	ES	
Crust Shrink	s After Baking	Watery	Meringue
Too much water Over-mixing after water is		Weak egg whitesOld egg whites	

	PII	ES		
Crust Shrinks	After Baking	Watery Meringue		
Too much water Over-mixing after water is added		Weak egg whites Old egg whites Insufficient sugar	Use fresh egg whites	
with fat	Mix fat and flour more carefully	Insufficient stabilizer Brown at too high temperature		
Too much water Over-mixing after water is			Cool filling before topping with meringue	
	Mix fat and flour more carefully	Insufficient eggs	Increase eggs Increase cornstarch or other	
Insufficient shortening	Increase shortening Crust	other thickener Over-baking	thickener Reduce baking time	
Under-baking	Increase bottom heat	ature	Reduce baking temperature (to 400° F.)	

COOKIES

Possible Cause	Remedy	Possible Cause	Remedy
	oo Much	Use of too strong a flour	Cut down on the amount of
	Reduce the soda in the		bread flour in the formula
Excessive amount of soda	dough	Ice Rox Cookie Dough	s Are Difficult to Slice
Too much sugar in the mix	Reduce the amount of sugar		
Insufficient mixing of the	in the dough Increase mixing time after	chilled	Increase the chilling time in the refrigerator
dough	flour is added		Use more finely chopped
	Decrease the moisture in the	too coarse.	fruits and nuts in the
	mix		doughs
Dry Out	Rapidly	Do Not Have the Prop	er Crack on the Surface
	Increase sugar, shortening'	Too much mixing of the	Decrease the mixing
dients in the formula	or milk in the mix Bake at higher temperature	dough	
ture	Dake at higher temperature		Vary amounts of soda and
Over-baking		Cool oven	baking powder in the mix Bake at higher heat
_	Replace part of the sugar		
materials in the dough	with invert sugar, glucose, or honey	Too 7	Tender
Are Not	t Tender	Excess sugar	
Lack of enrichening ingre-	Increase the amount of sugar	Excess shortening	
	and shortening in the mix	Insufficient mixing	
Over-mixing of the dough	Cut down on the mixing time	Use of a weak flour	
	after the flour is added	Too few eggs	Increase egg content
	DOLLCI	INILITO	
	DOUGH		(n . n .
Over-mixing.	Tough Poduce mixing		of Frying Fat Take proper care of frying
_	Increase sugar, shortening,	break-down of frying lat	fat
. dough		Crack Day	ring Frying
Absorb Too Much	Fat During Frying	Stiff dough	
Low frying temperature	Increase frying temperature	Too much baking powder	
To a wish or describ	(375° F. to 390° F.)	Sweat Wh	en Sugared
Too rich a dough Excessive baking powder			Cool doughnuts before they
Excessive liquid		nuts are cooled	are sugared
Break-down of frying fat			Follow formula (page 398).
Stiff dough	Increase liquid	doughnut sugar	
	BREA	AD	
Poor	Flavor	Crusting in proof box	Use steam in proof box or
"Old" dough			cover doughs
	Increase sugar, milk, and shortening		Grain
Unclean pans		"Old" dough	
_	Reduce dough temperature	Slack dough Over-proofing	
Poor	Volume	Insufficient mixing.	
"Old" dough		Low baking temperature	Increase baking temperature
"Young" dough		Holes i	n Bread
Under-proofing	Increase proofing time		Increase sugar, milk, and
Insufficient mixing	Increase mixing time		shortening
Thick	: Crust	Insufficient salt	
"Old" dough	Reduce fermentation	"Old" doughs	
Over-baking	Reduce baking time	Flashy oven	

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